

Fig. 1

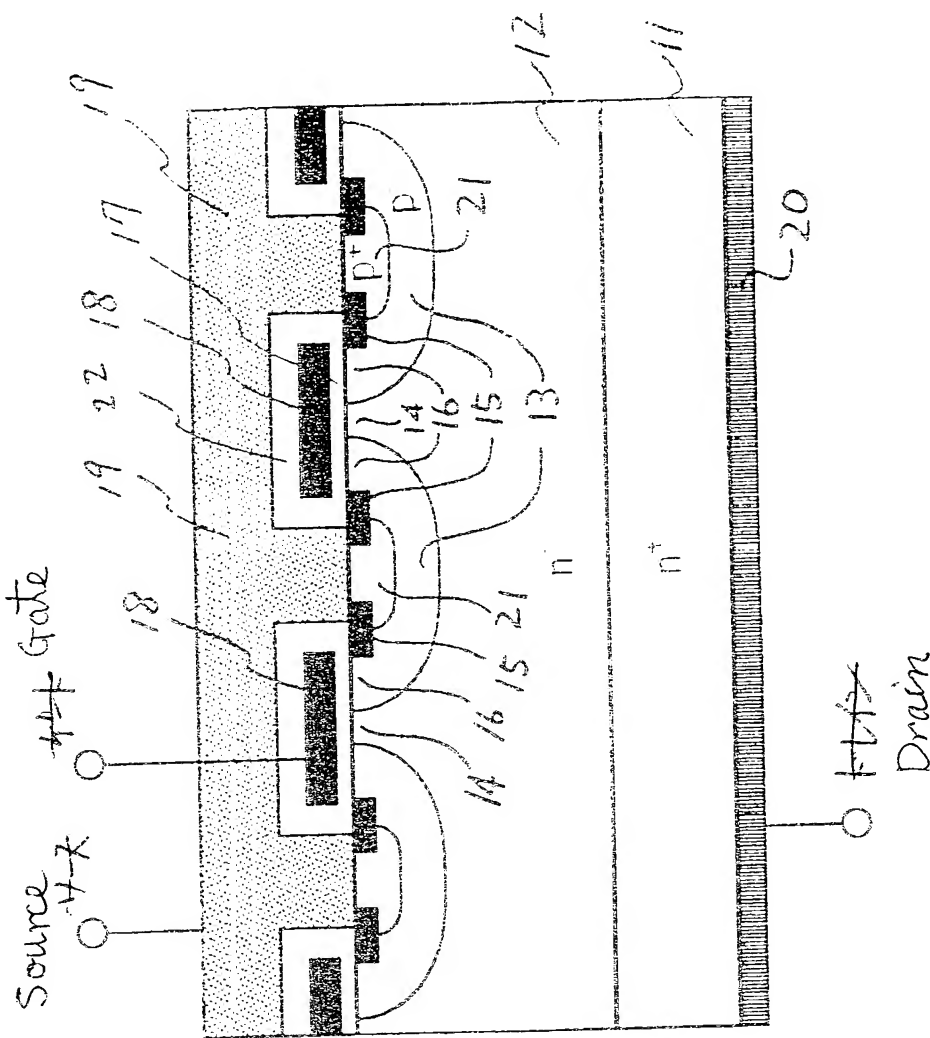


Fig. 2

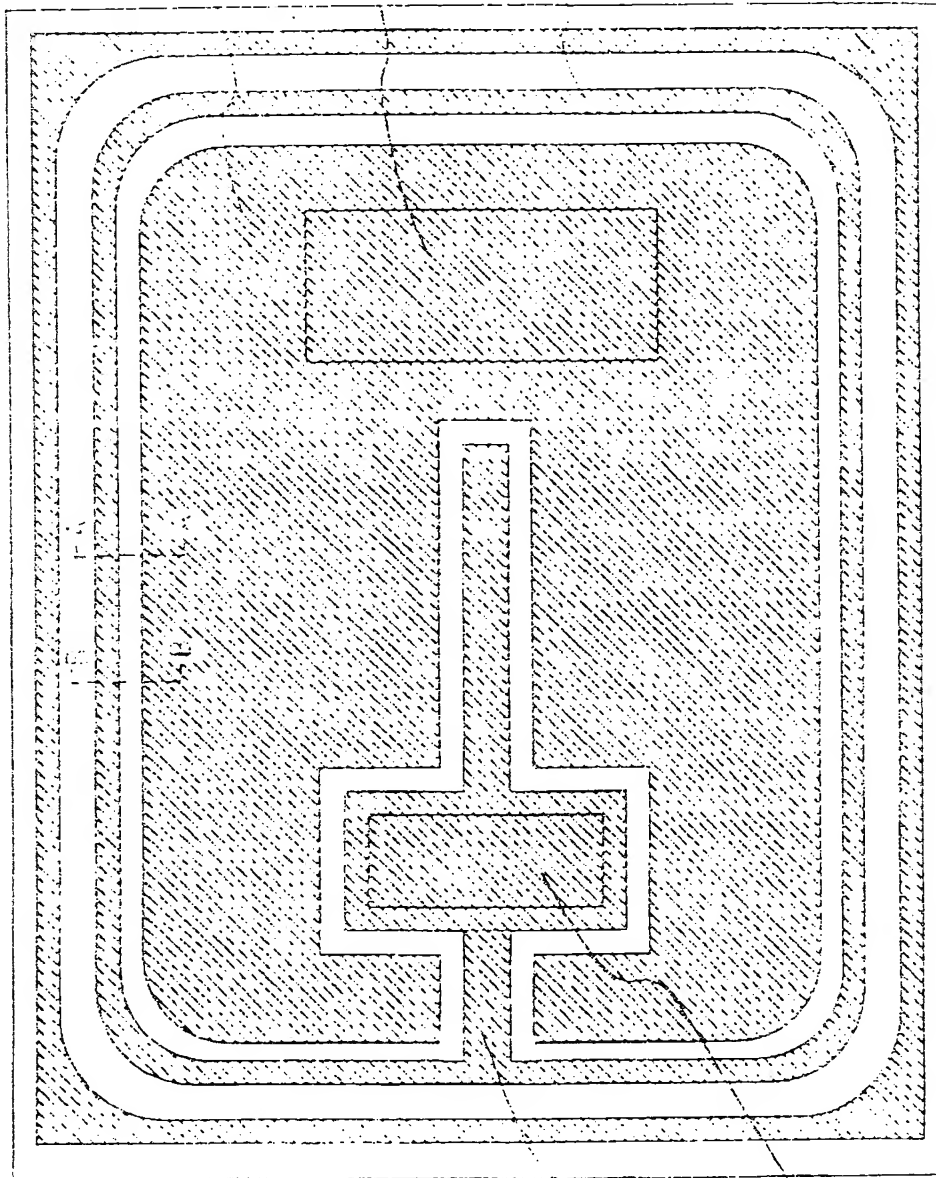


Fig. 3

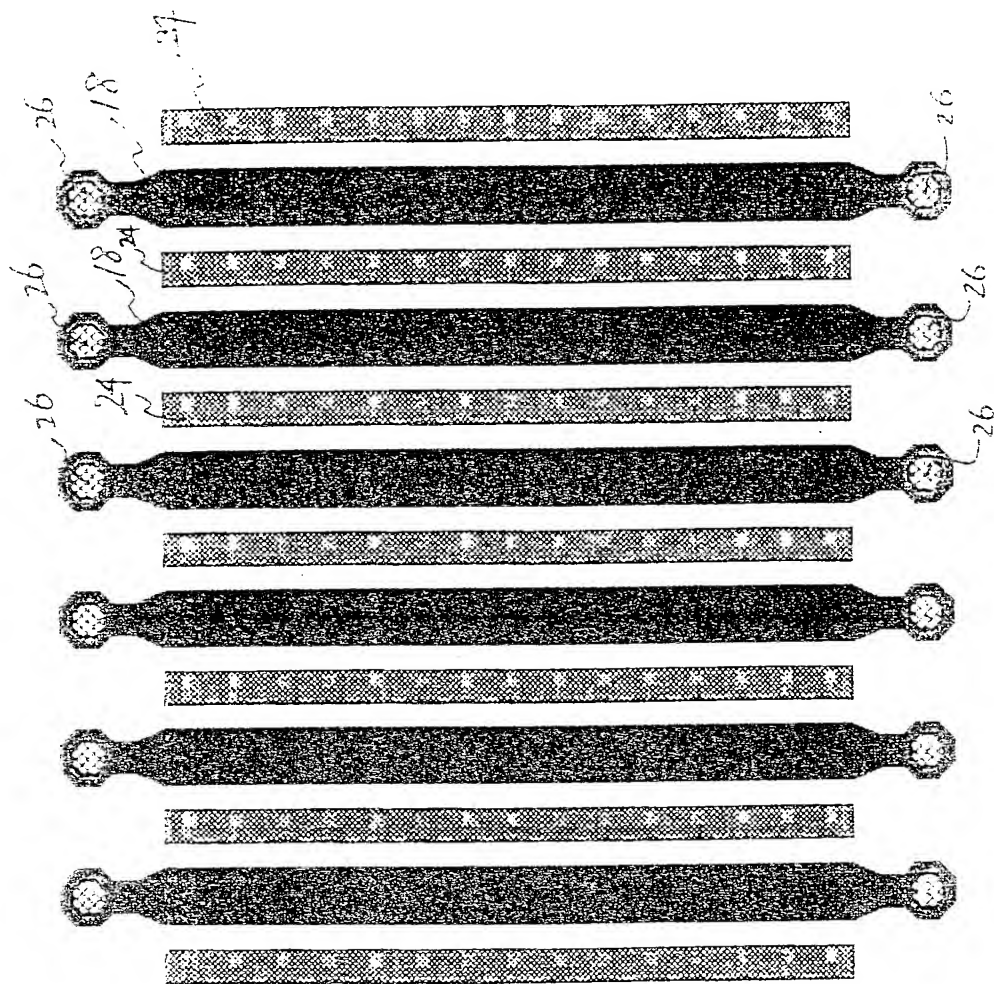


Fig. 4

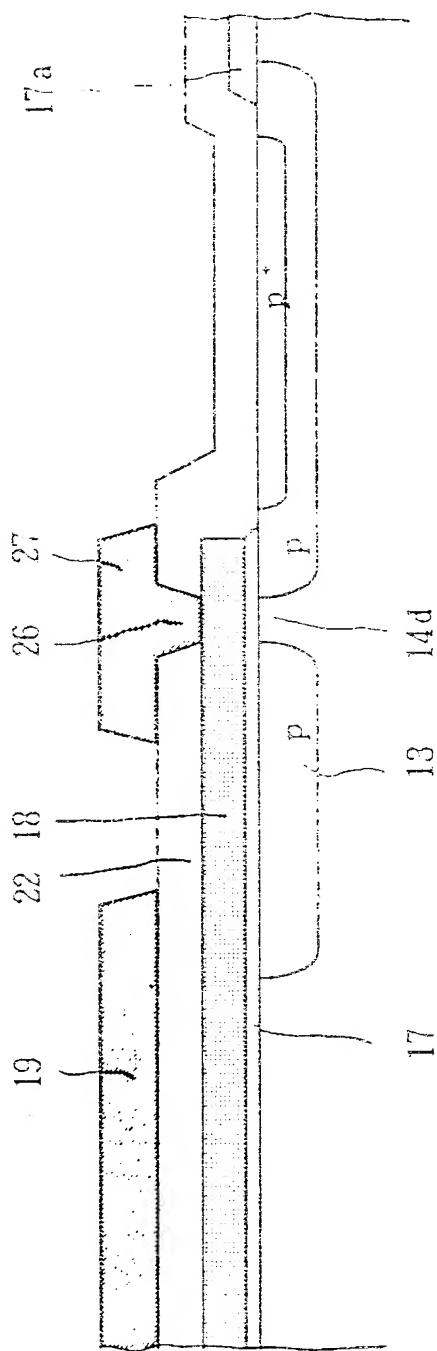


Fig. 5

Fig. 5

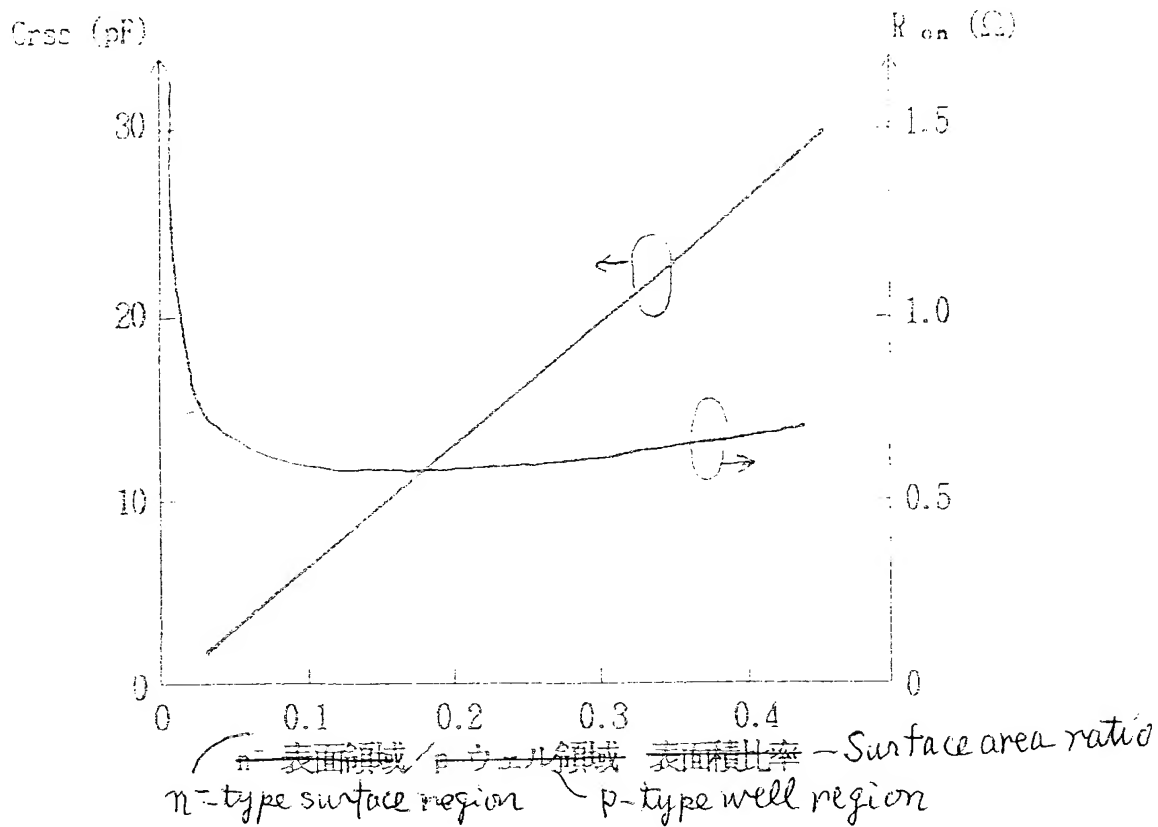


Fig. 7

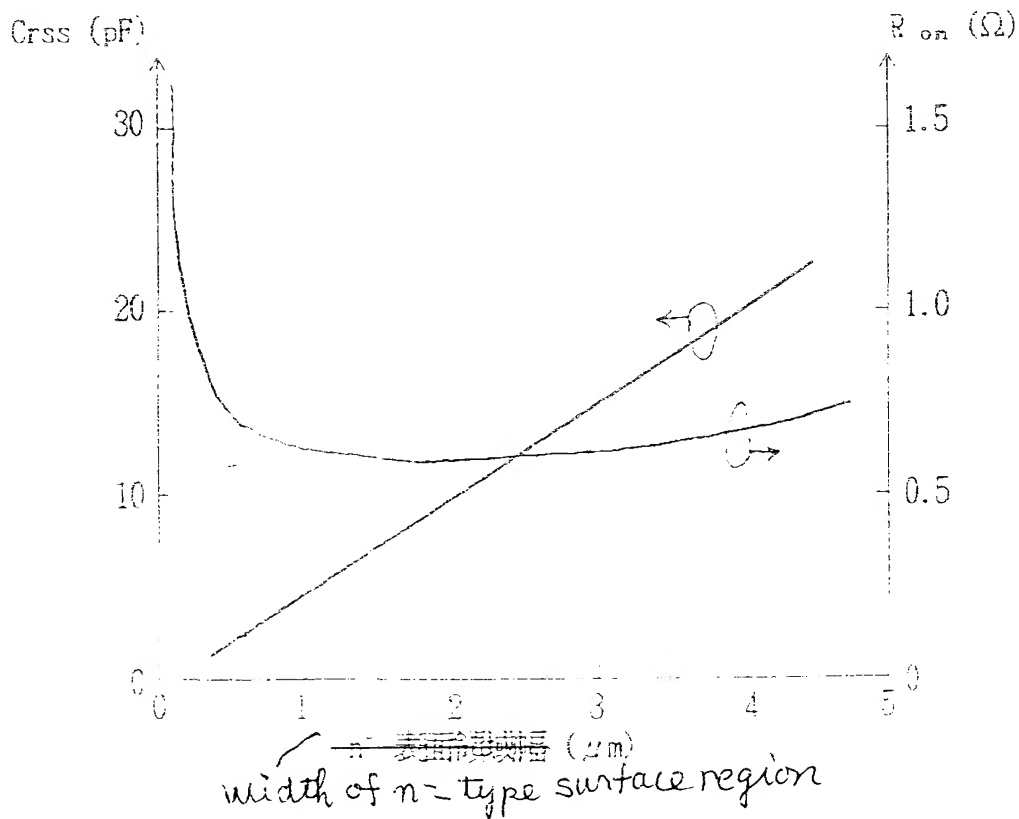


Fig. 8

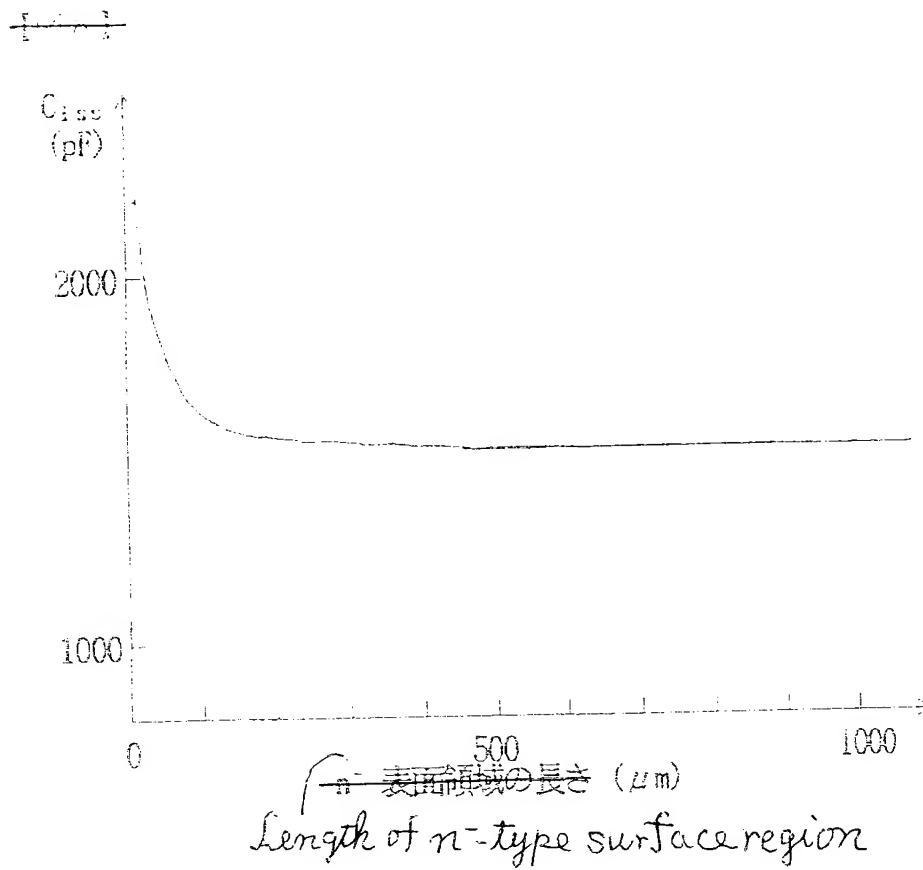


Fig. 9

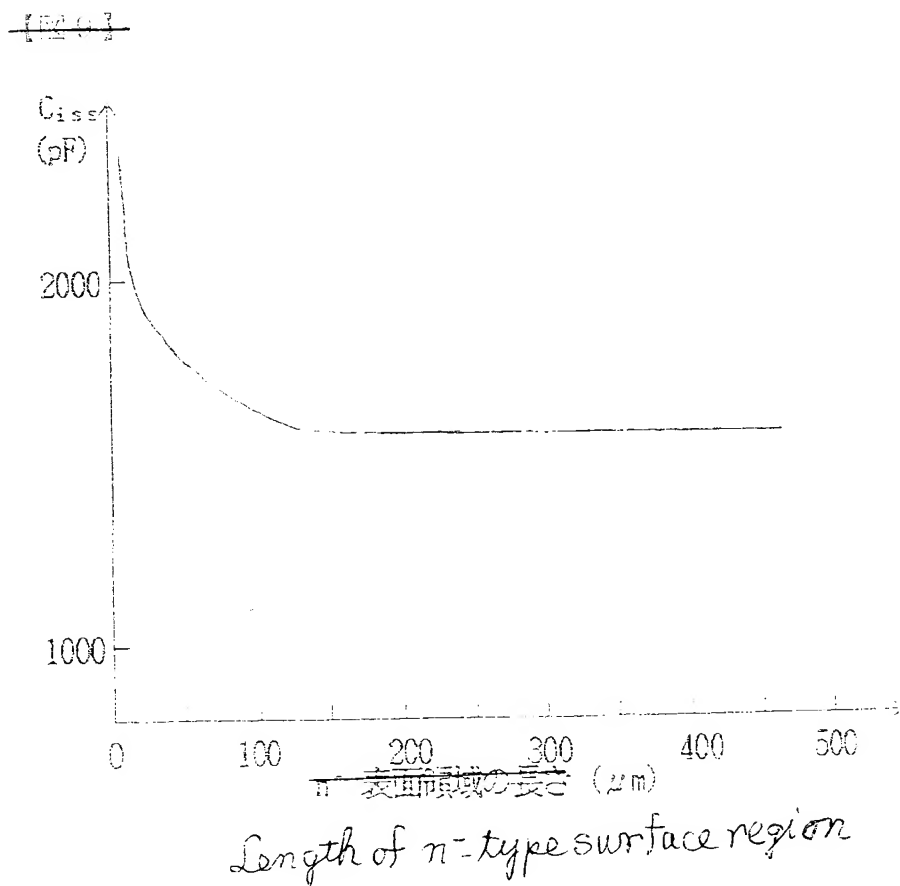
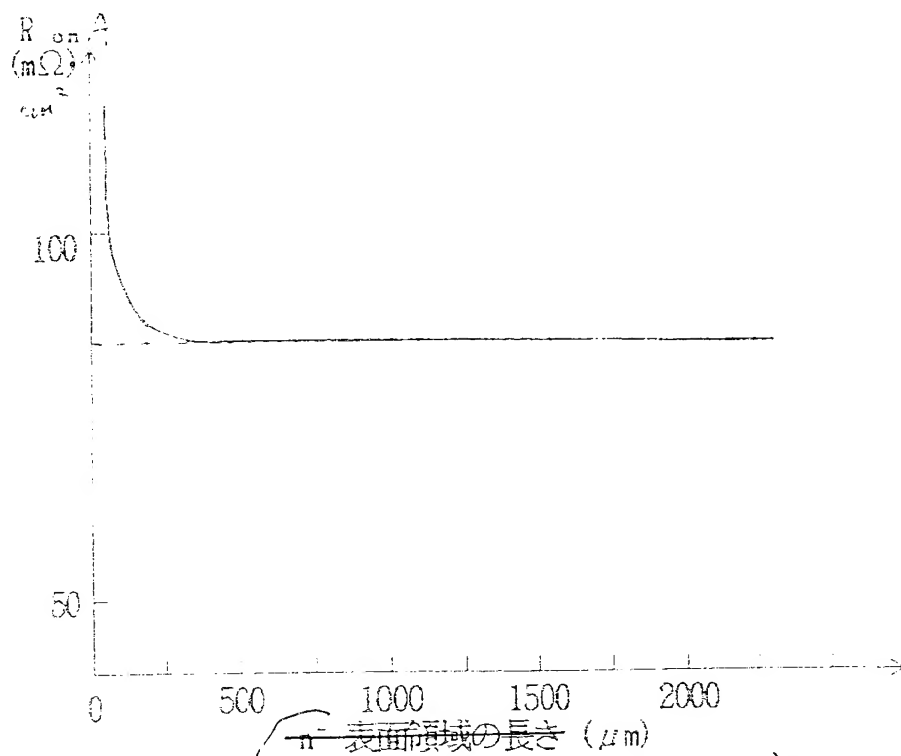
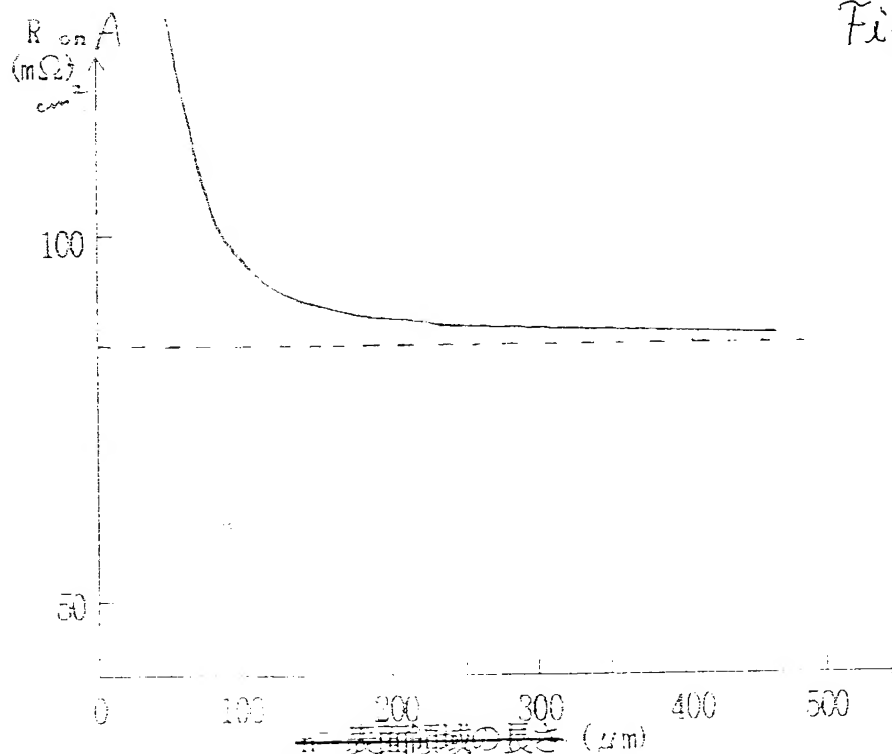


Fig. 10



Length of n -type surface region

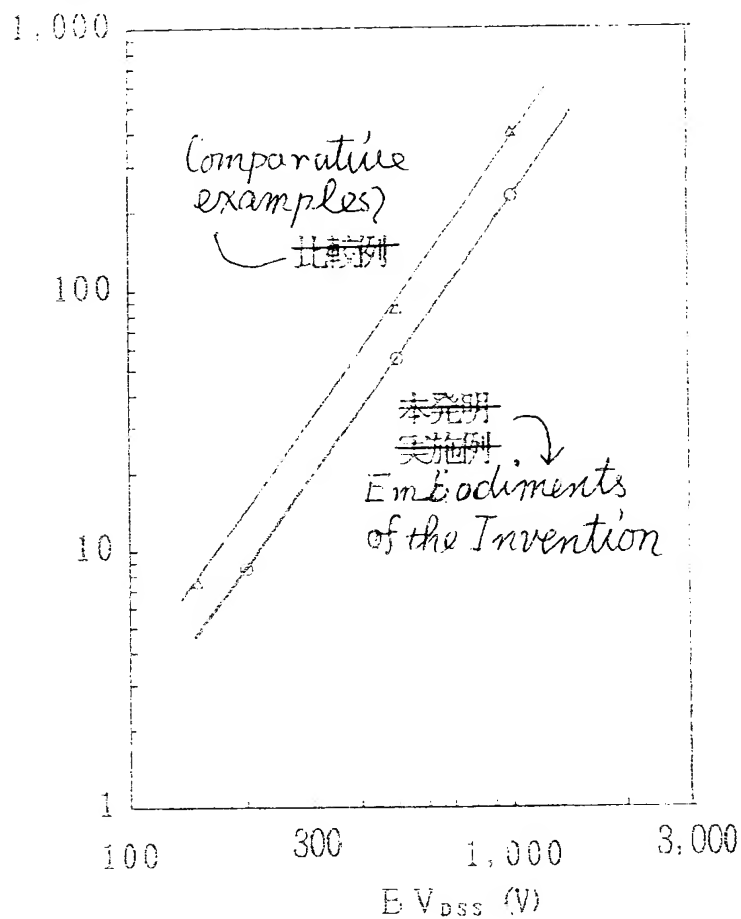
Fig. 11



Length of n -type surface region

Fig. 12

$R_{on}A$ ($\text{m}\Omega\text{cm}^2$)



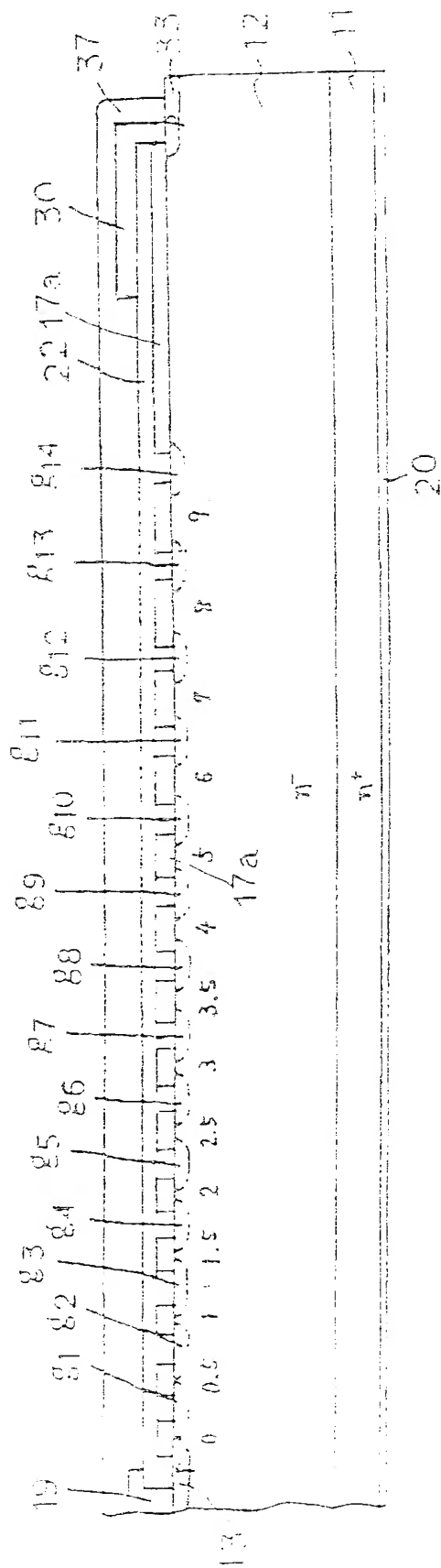


Fig. 13

Fig. 14

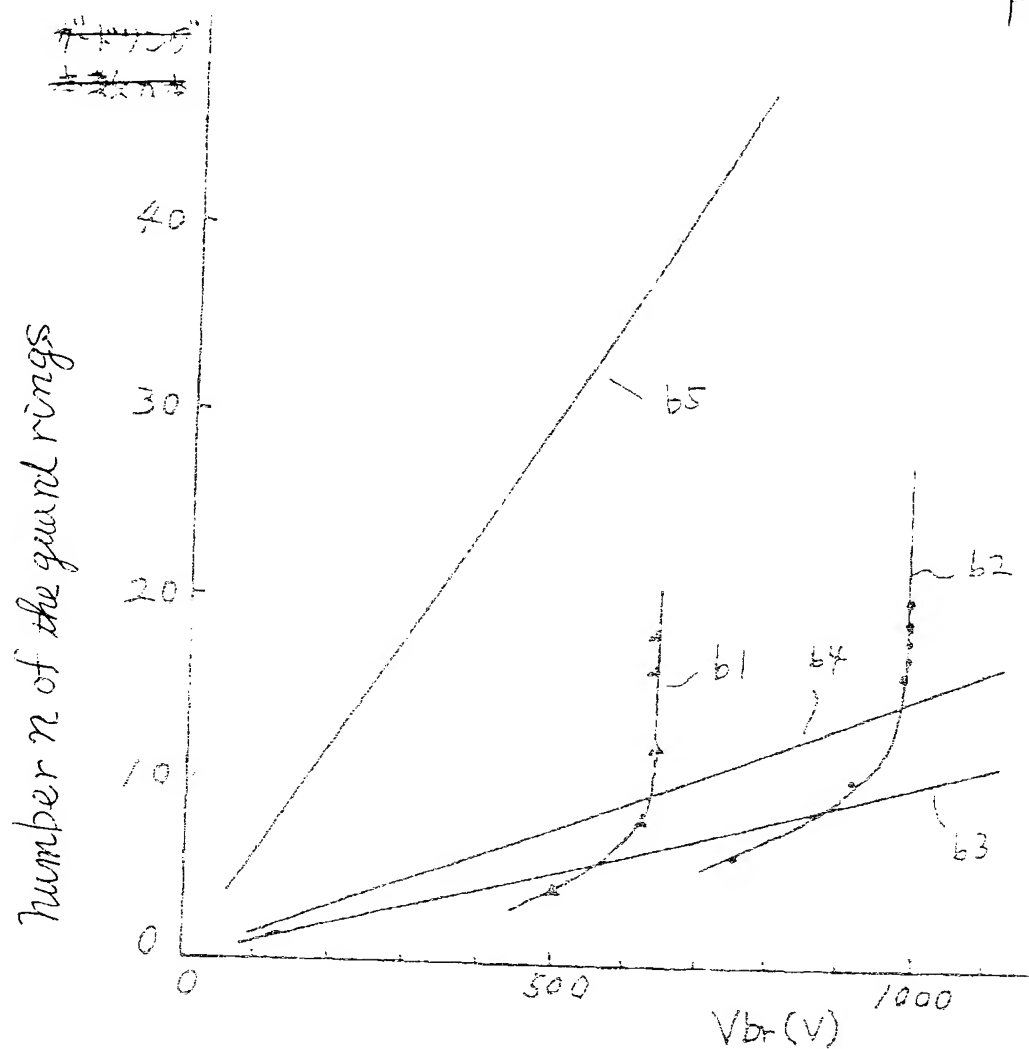
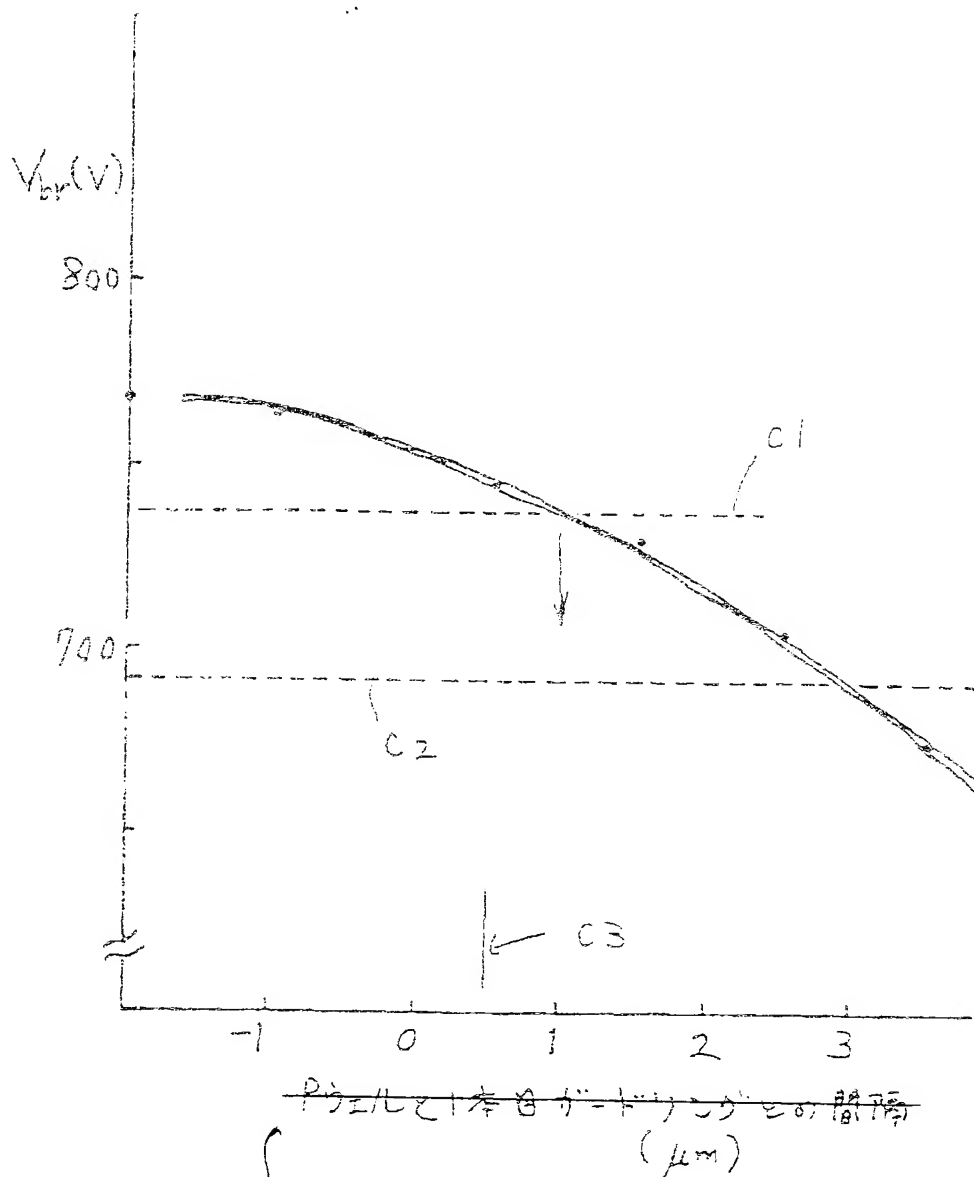
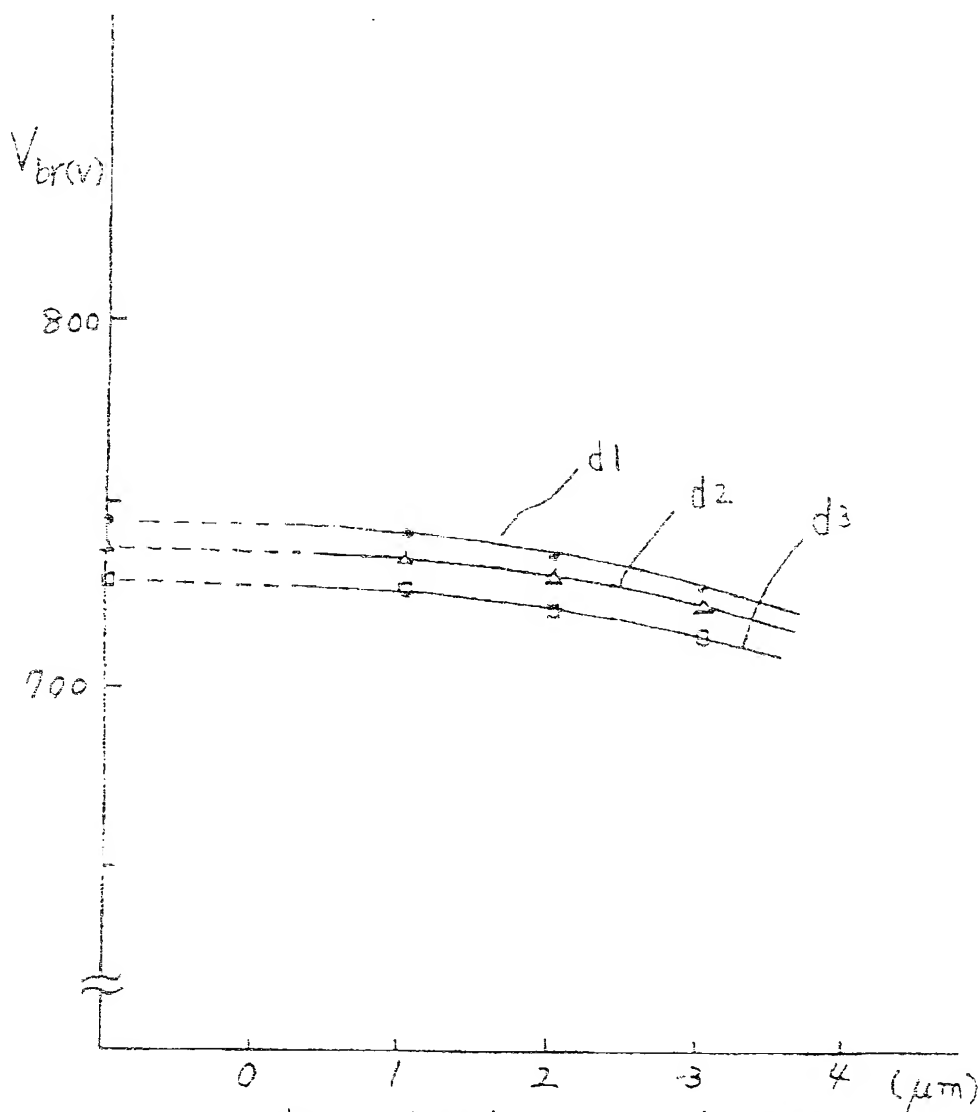


Fig. 15



Spacing between p-type well region
and first guard ring



~~1本目, 2本目ガードリング間距離~~

Spacing between first and second guard rings

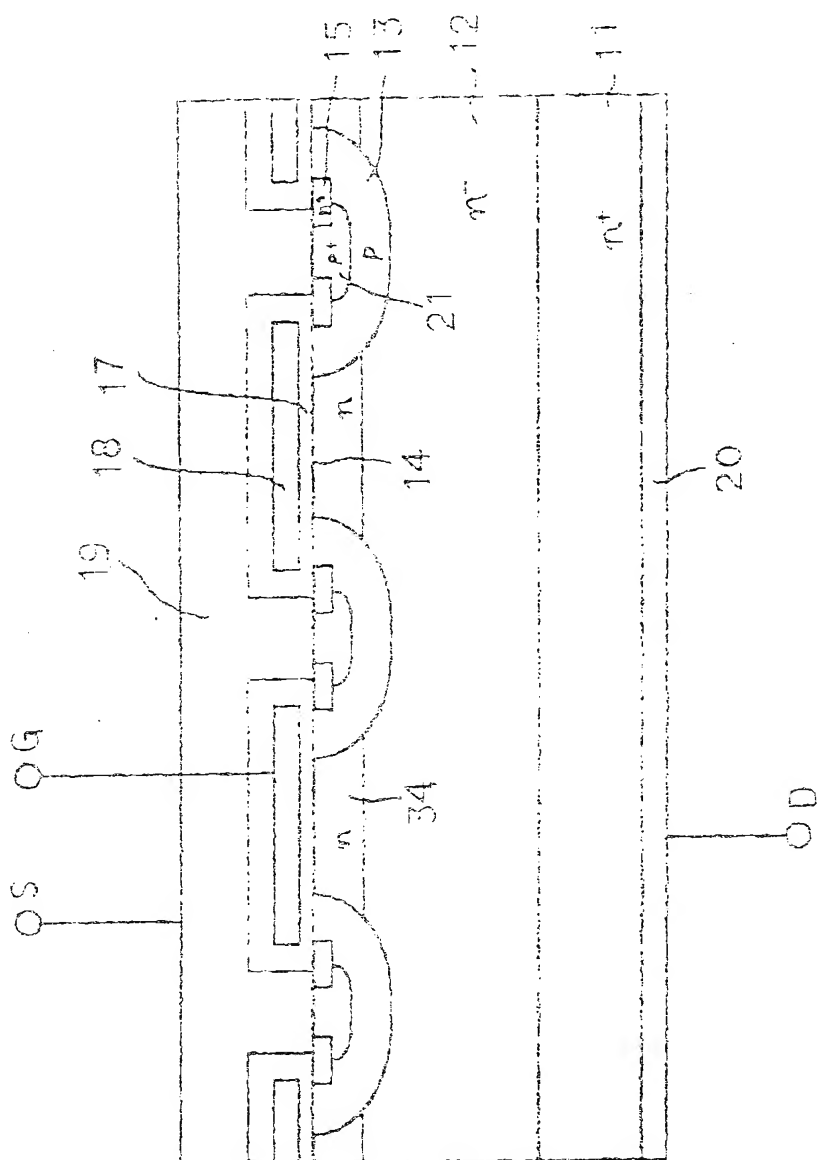
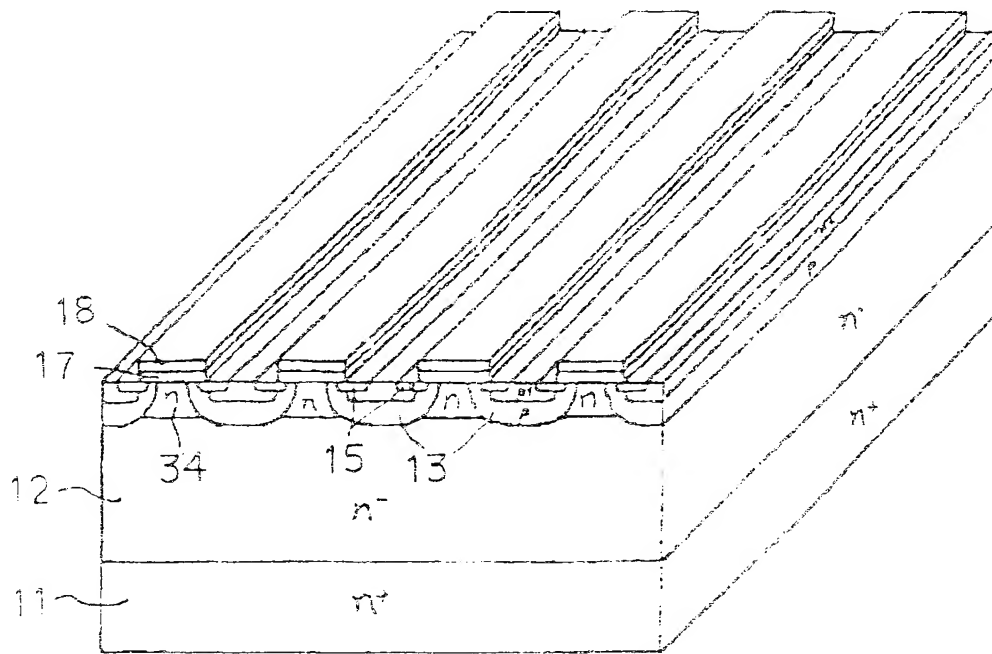


Fig. 17

[116]



[116]

Fig. 18

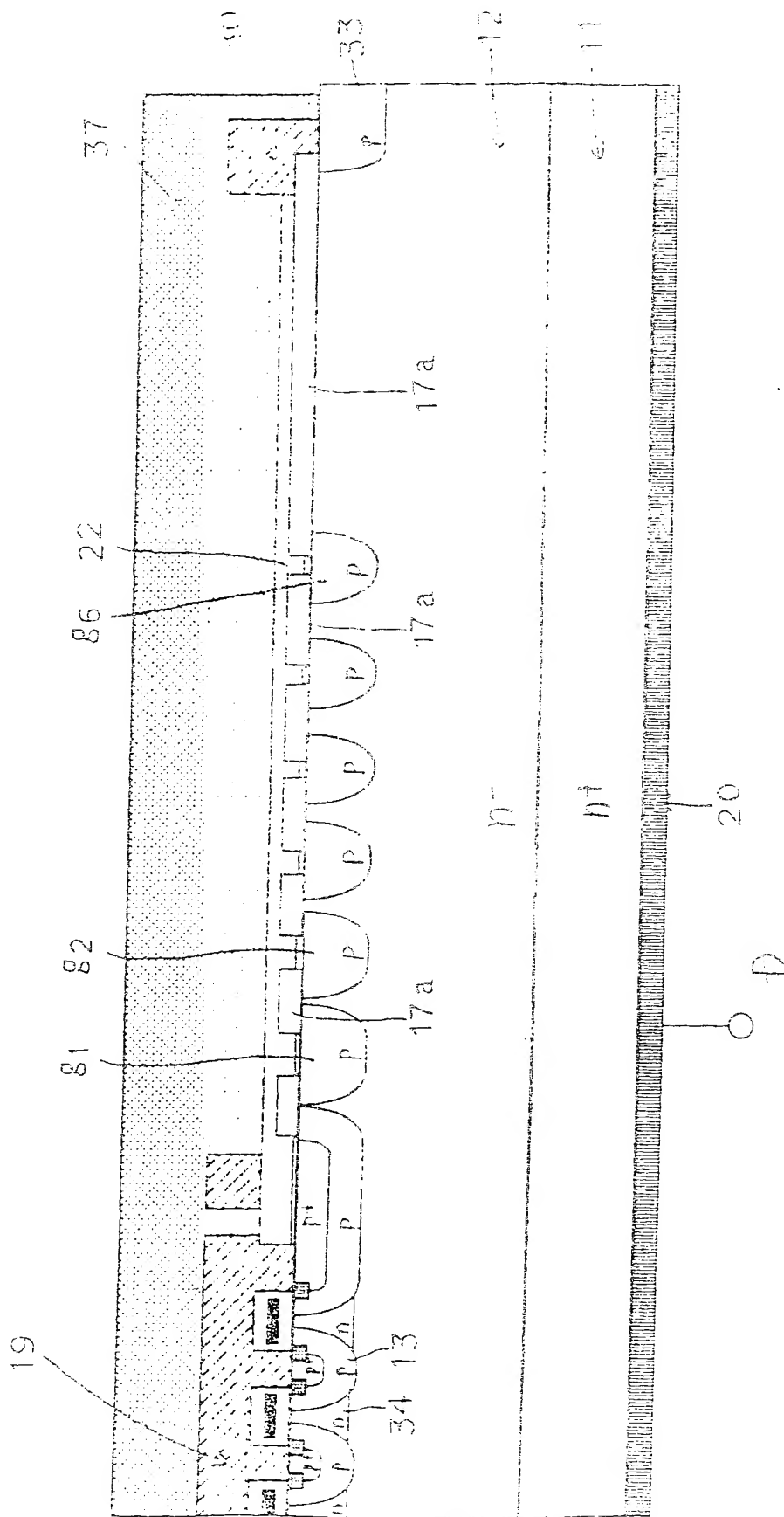


Fig. 19

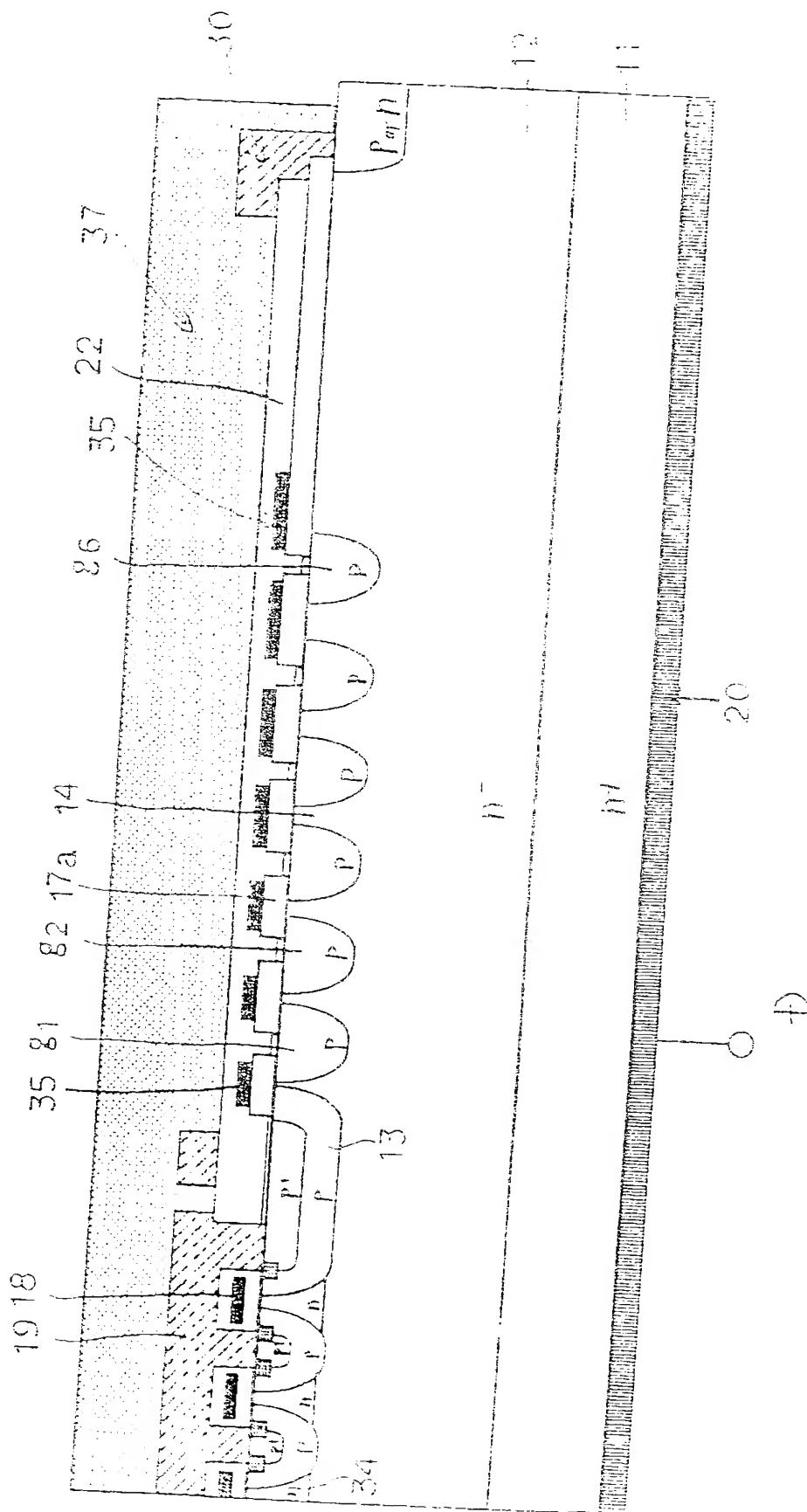


Fig. 20

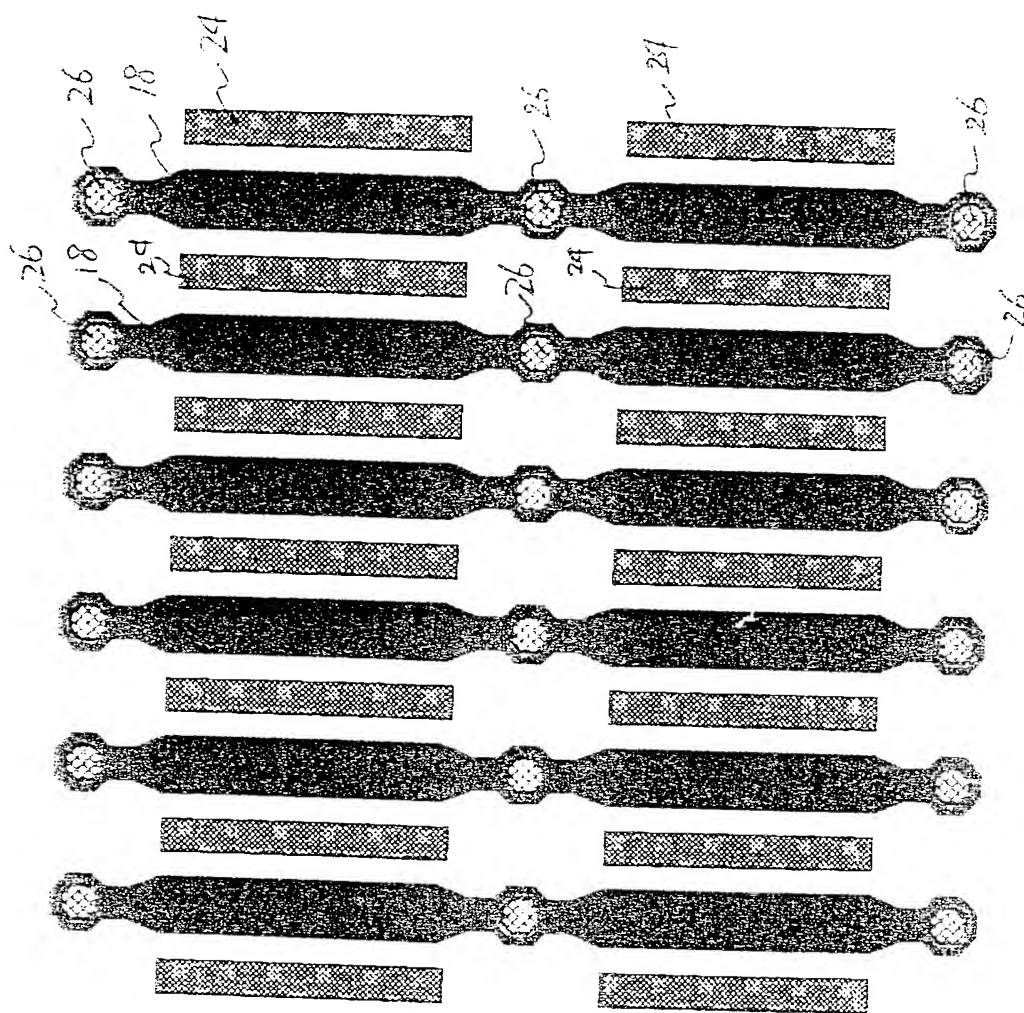
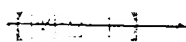


Fig. 21

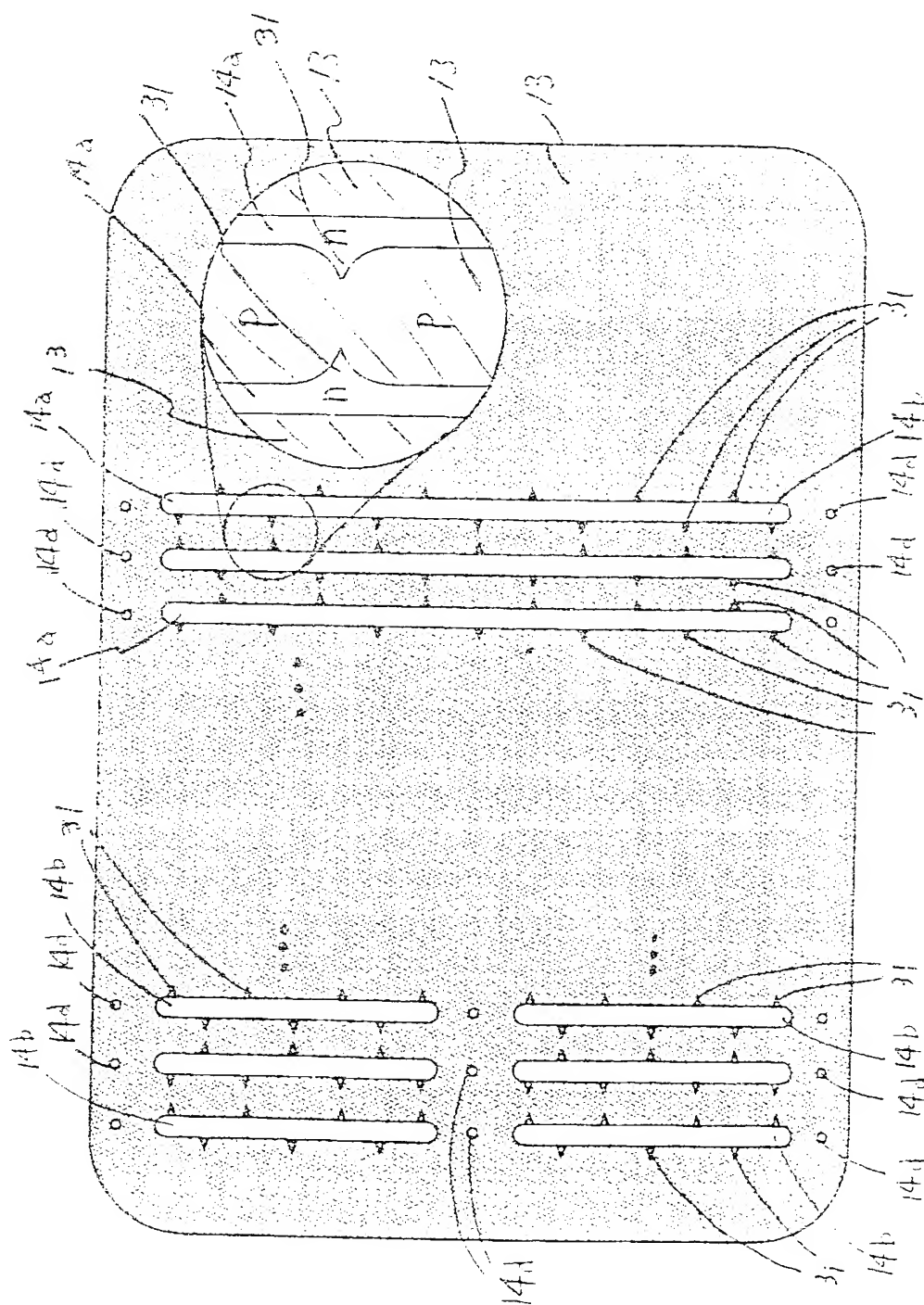


Fig. 22

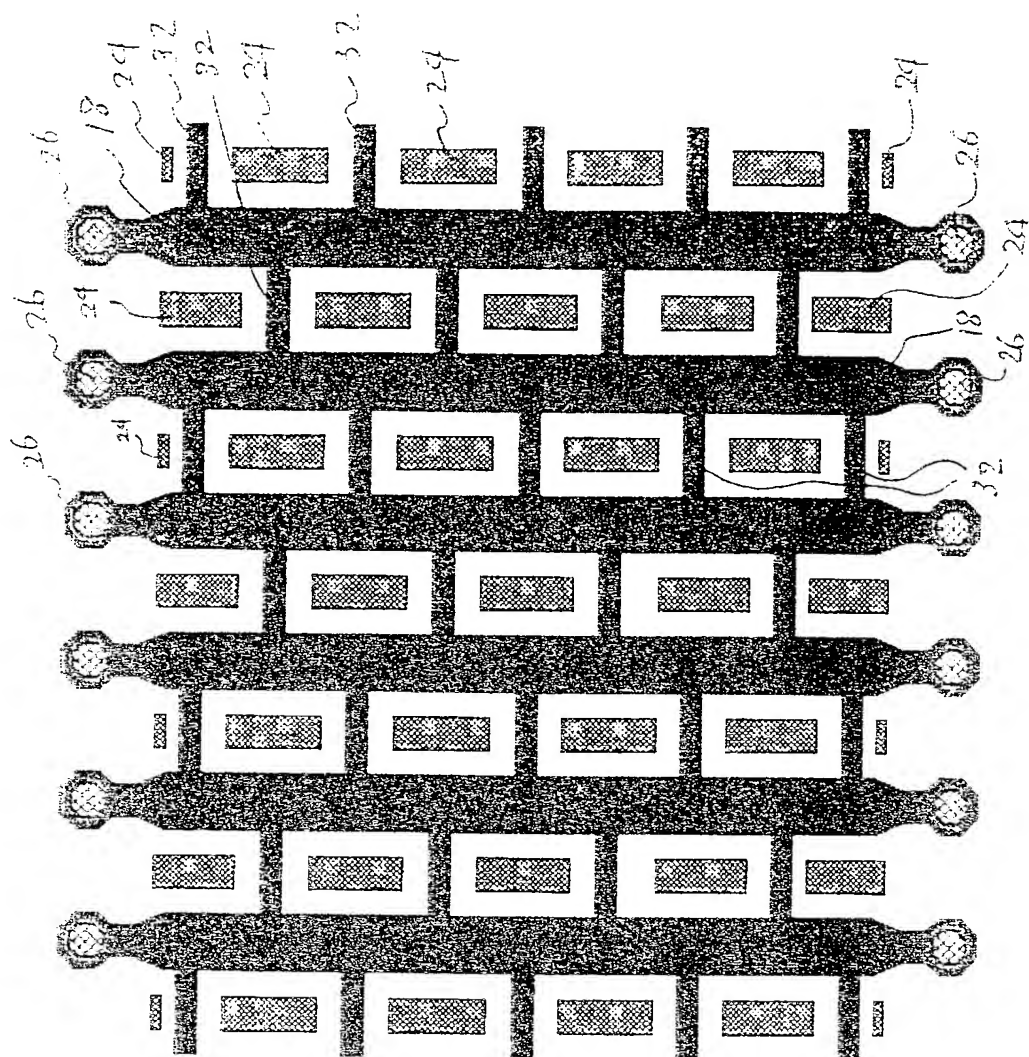
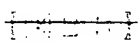


Fig. 23

Fig. 24

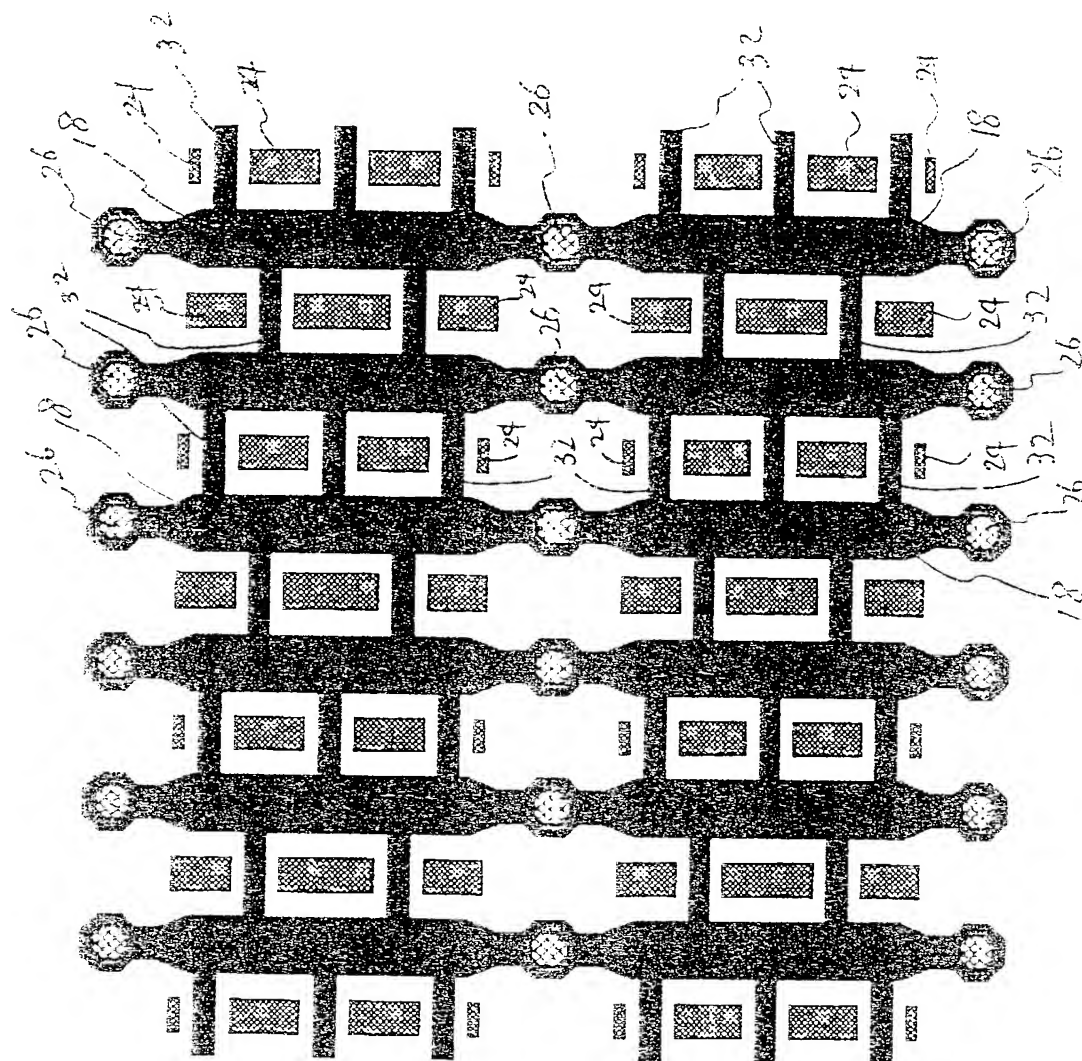


Fig. 24

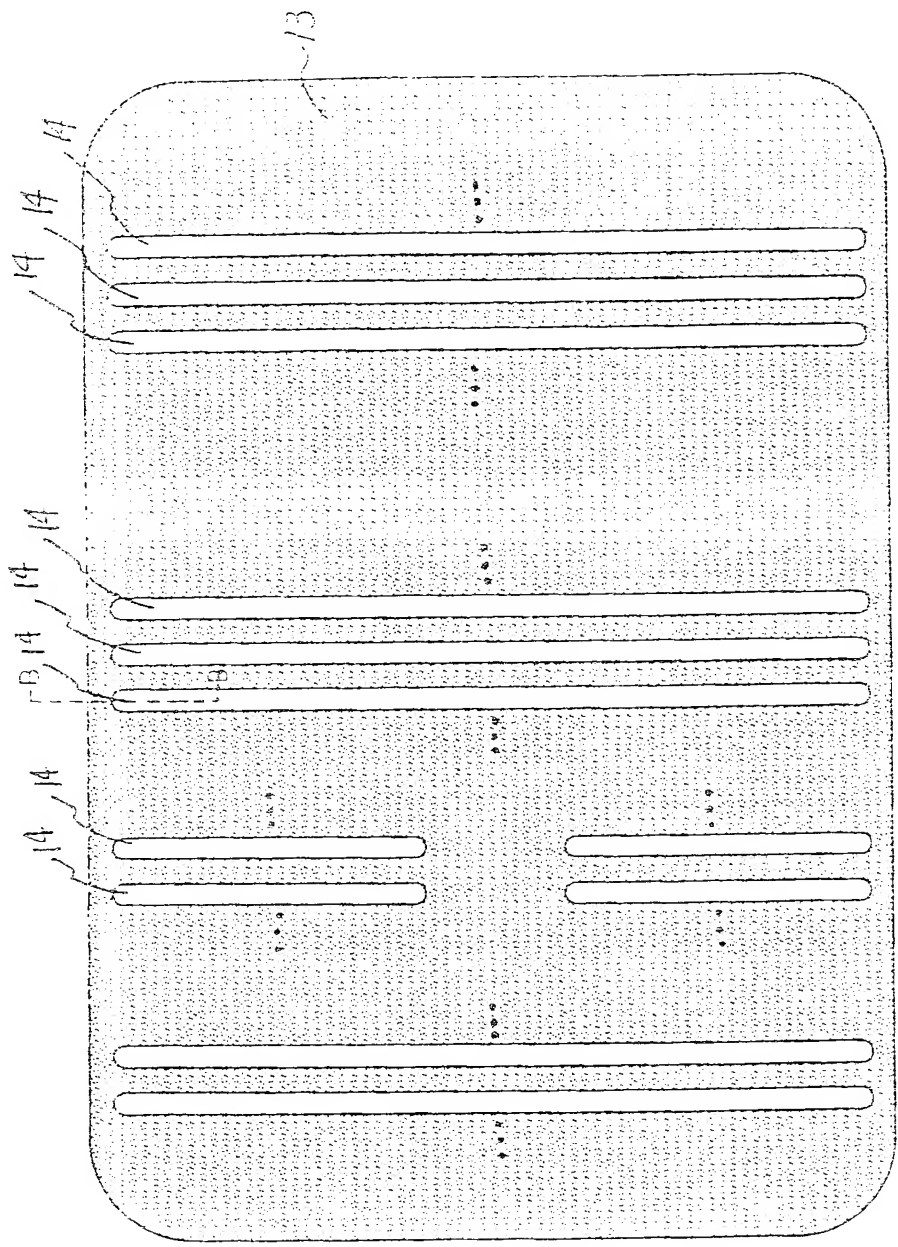


Fig. 25

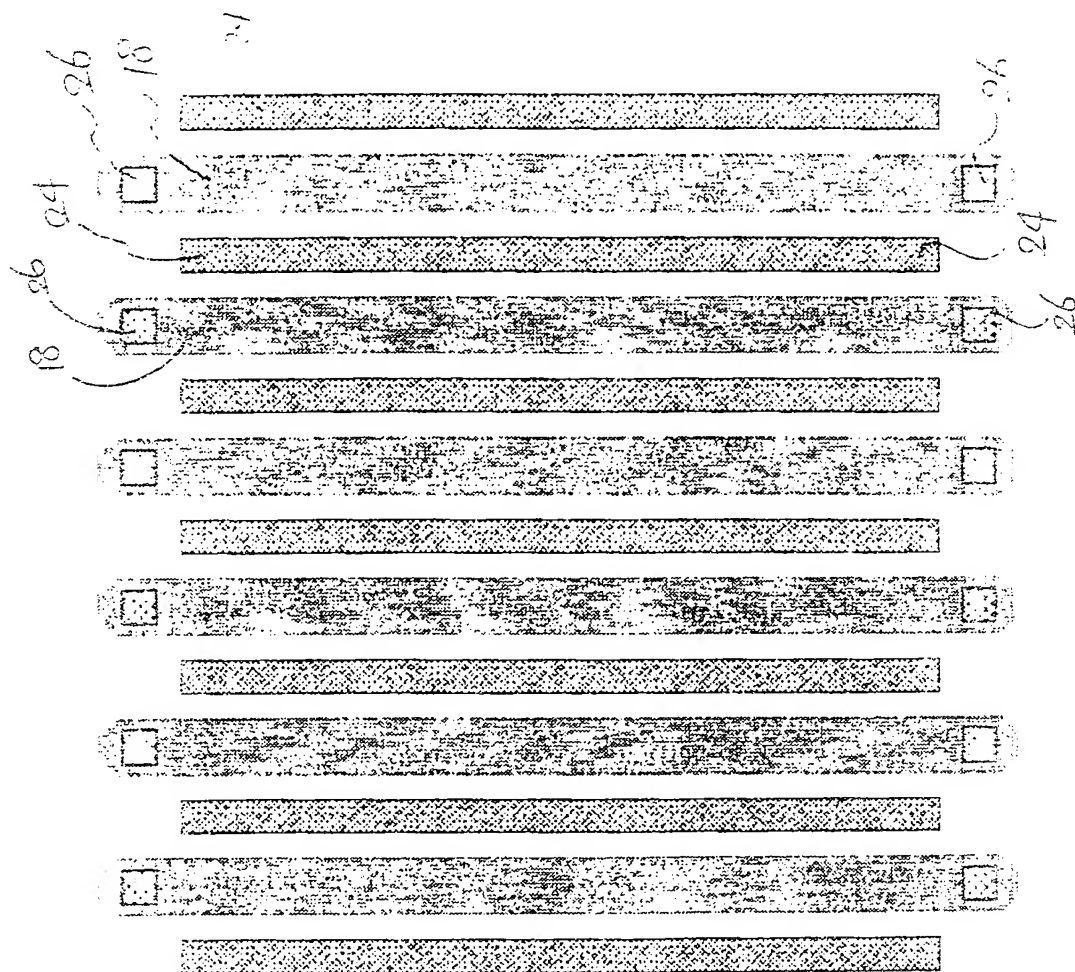


Fig. 26

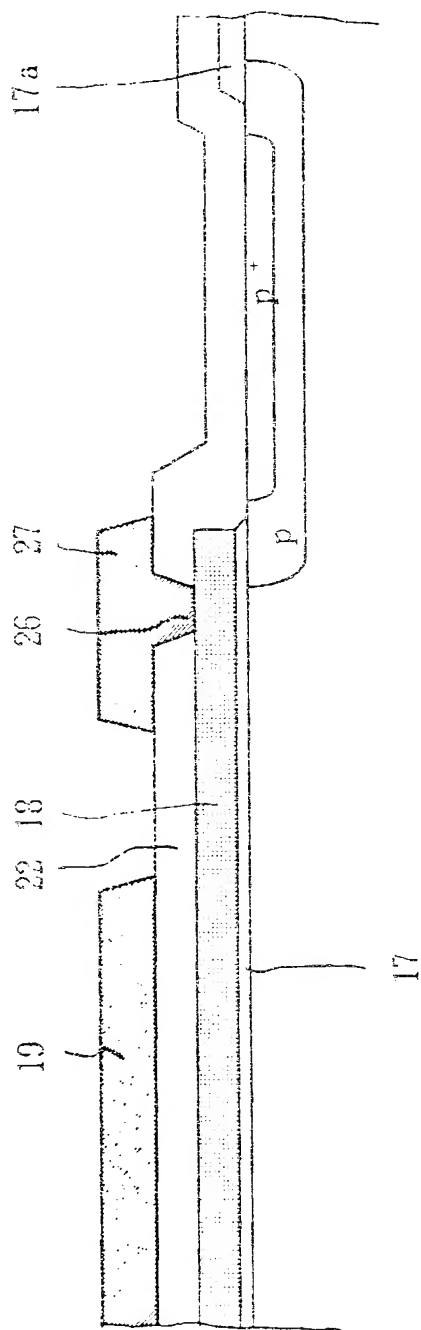


Fig. 27

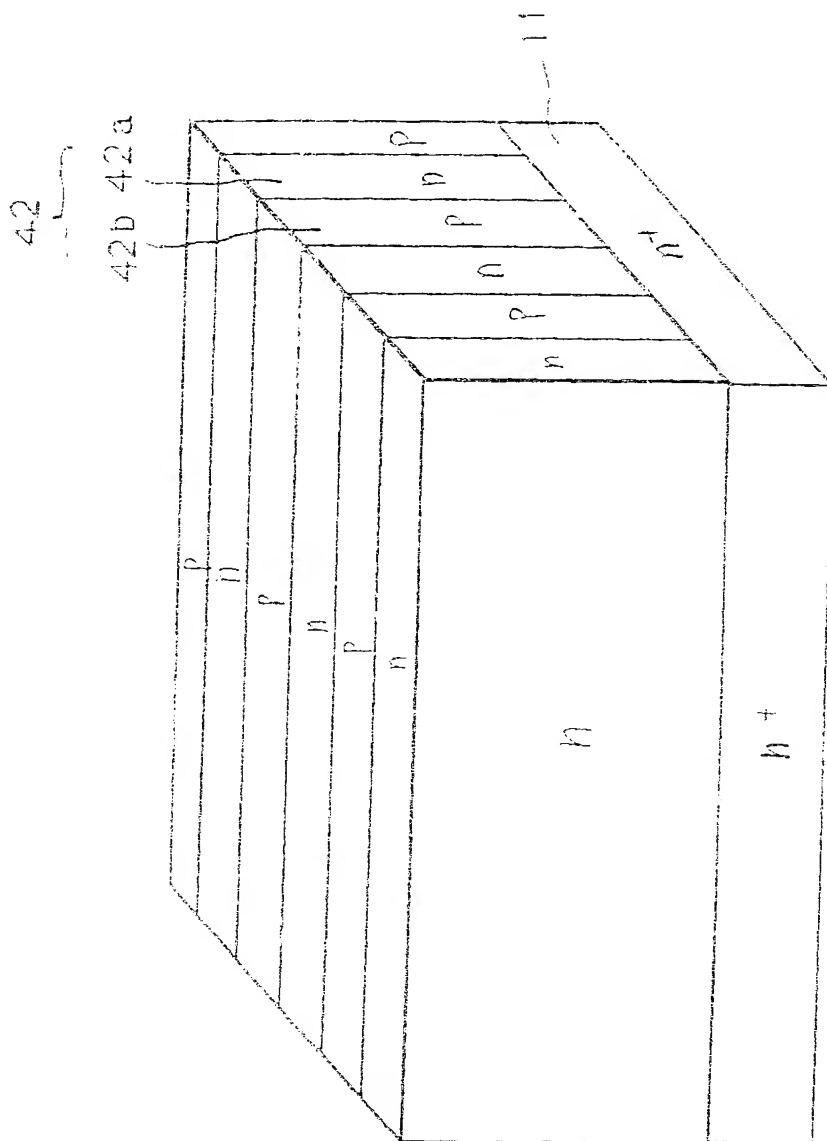


Fig. 29

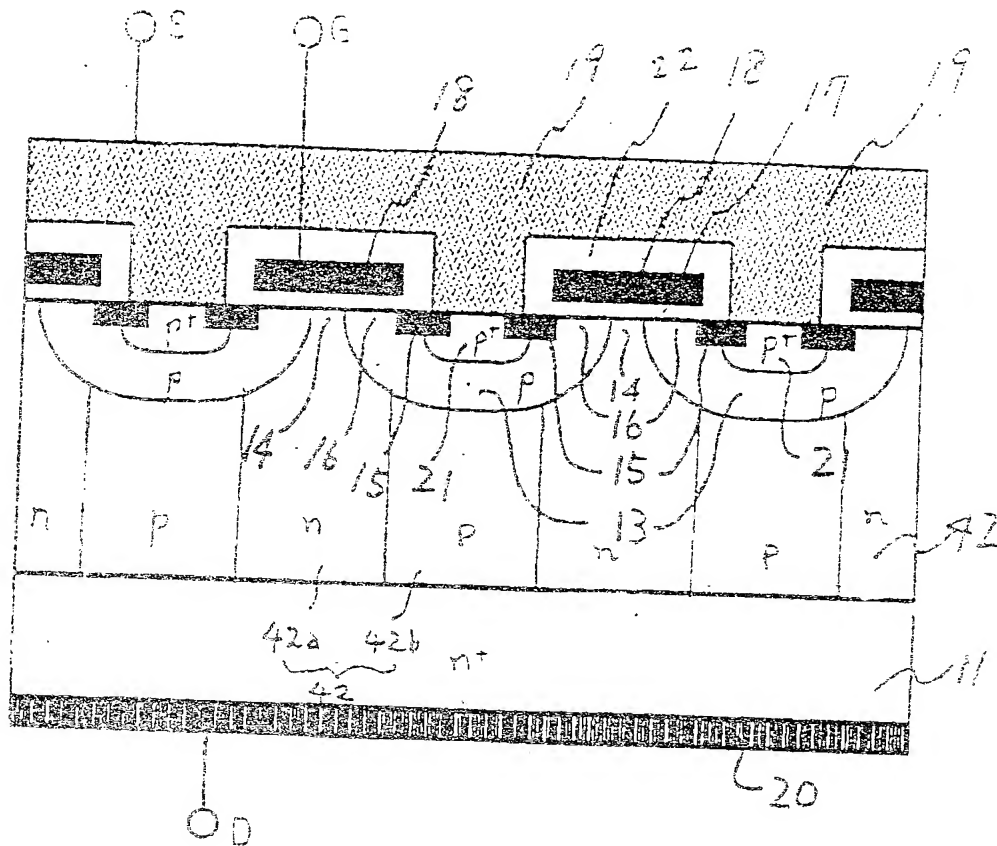


Fig. 30

Fig. 3(a)

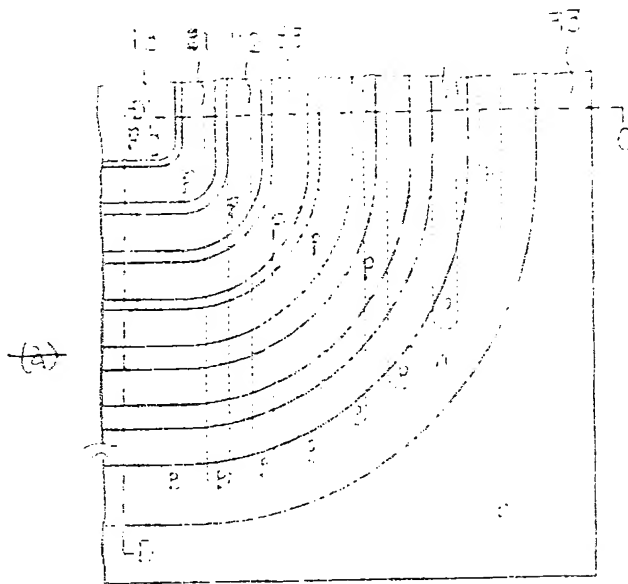


Fig. 3(b)

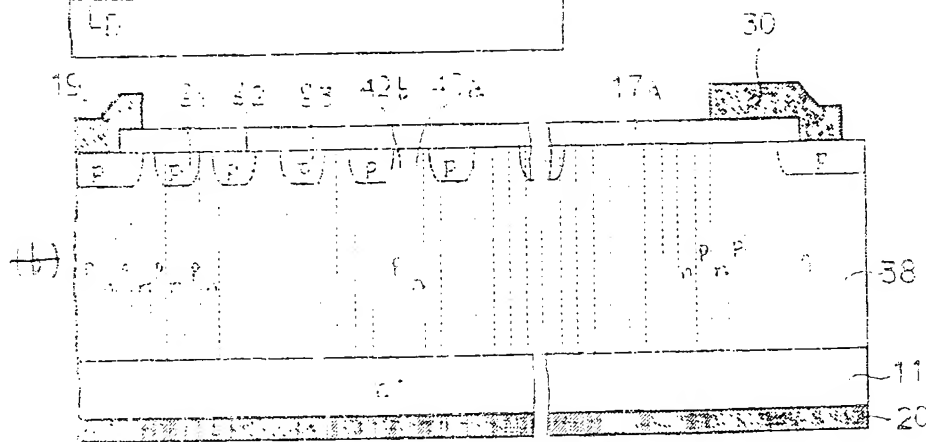
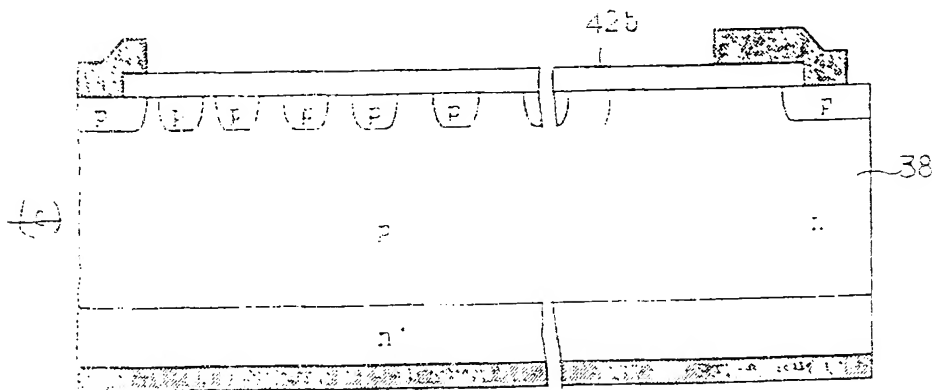


Fig. 3(c)



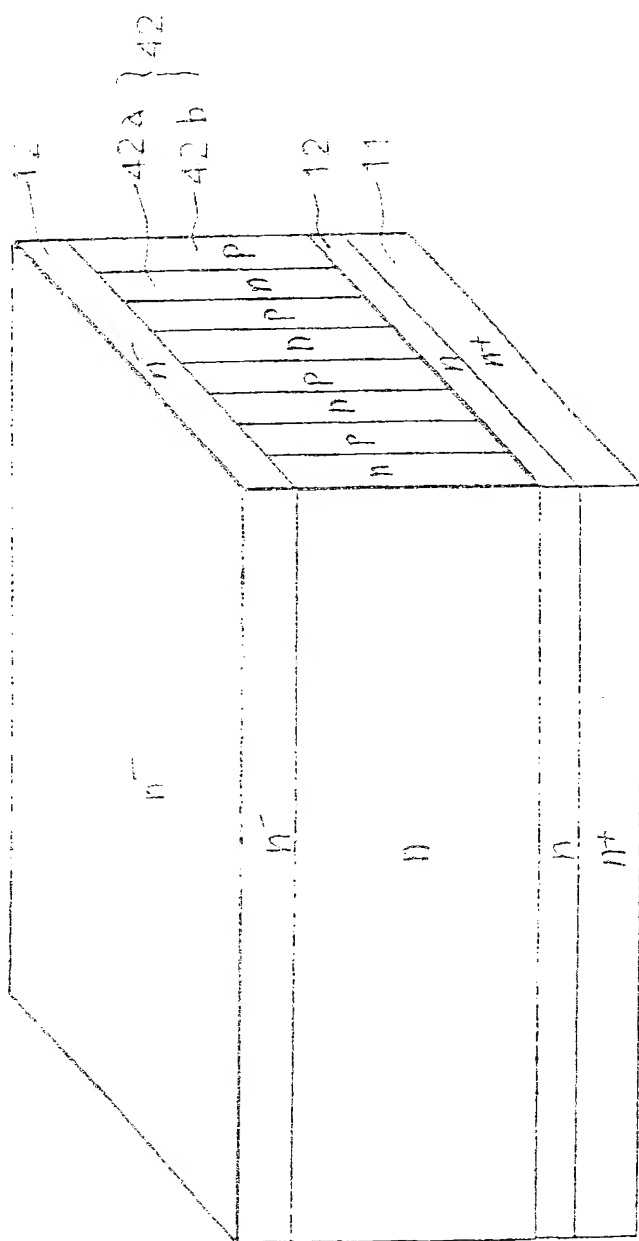


Fig. 32

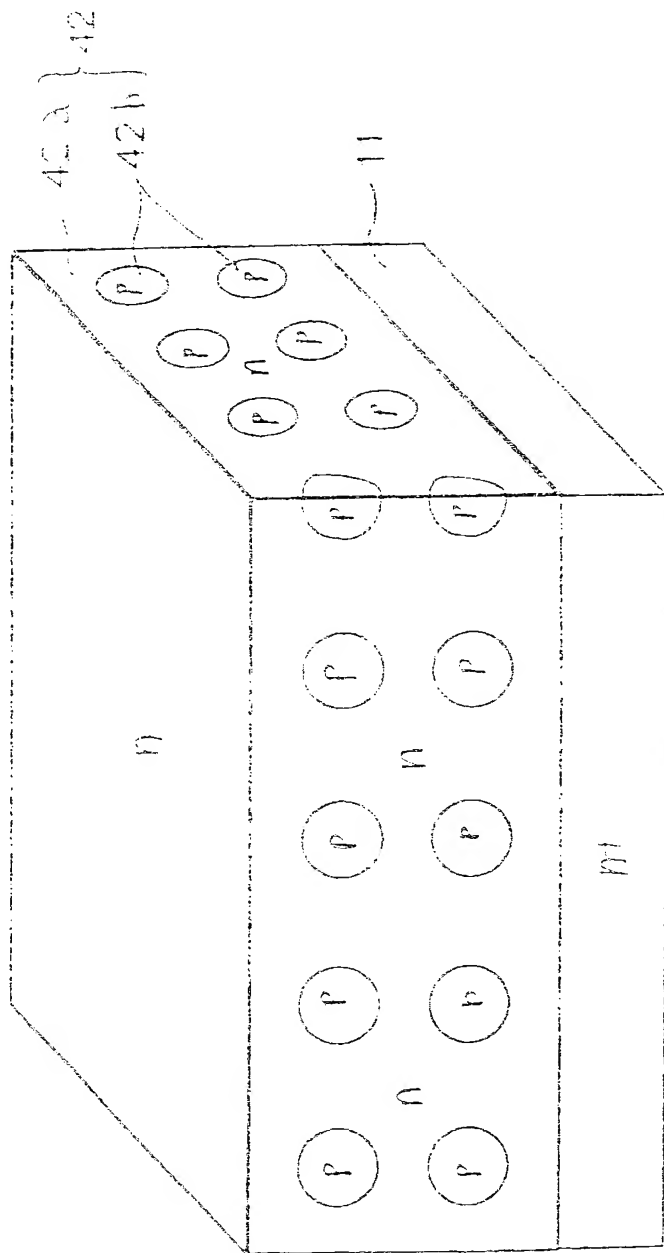


Fig. 33

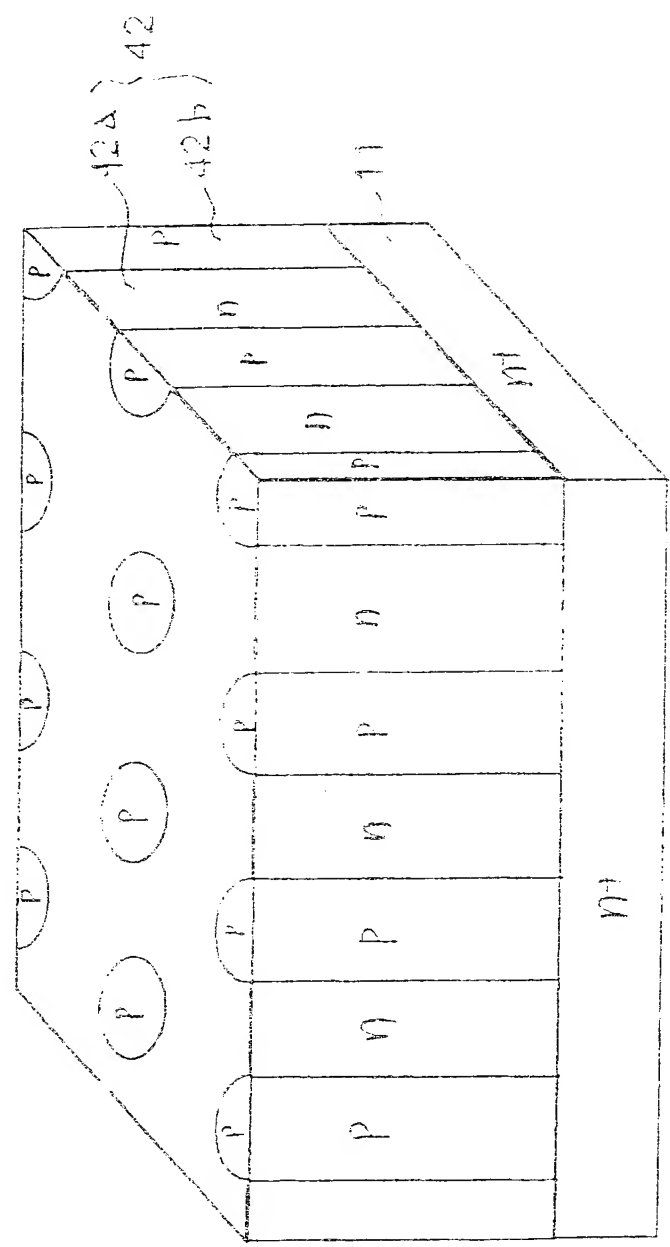
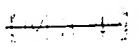


Fig. 34

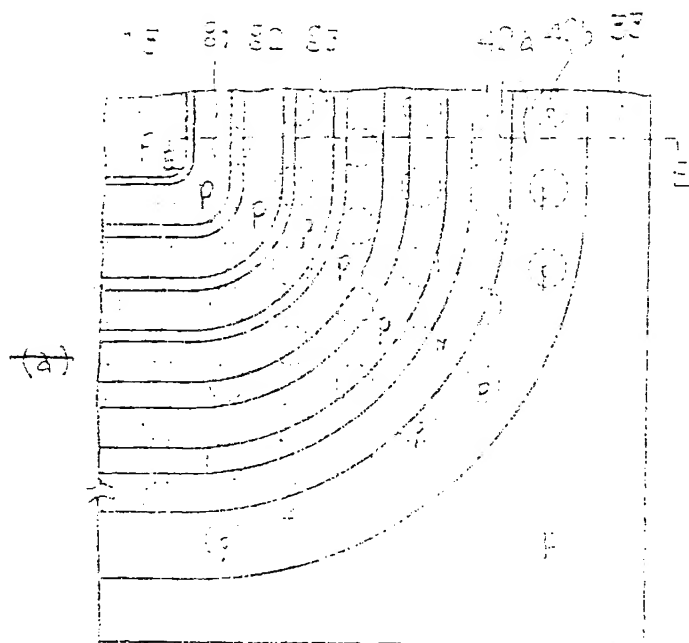


Fig. 35(a)

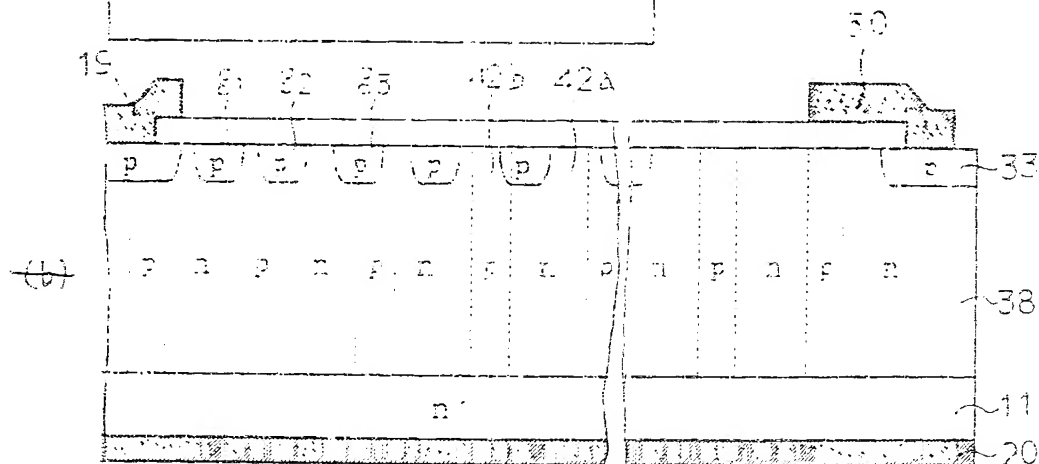
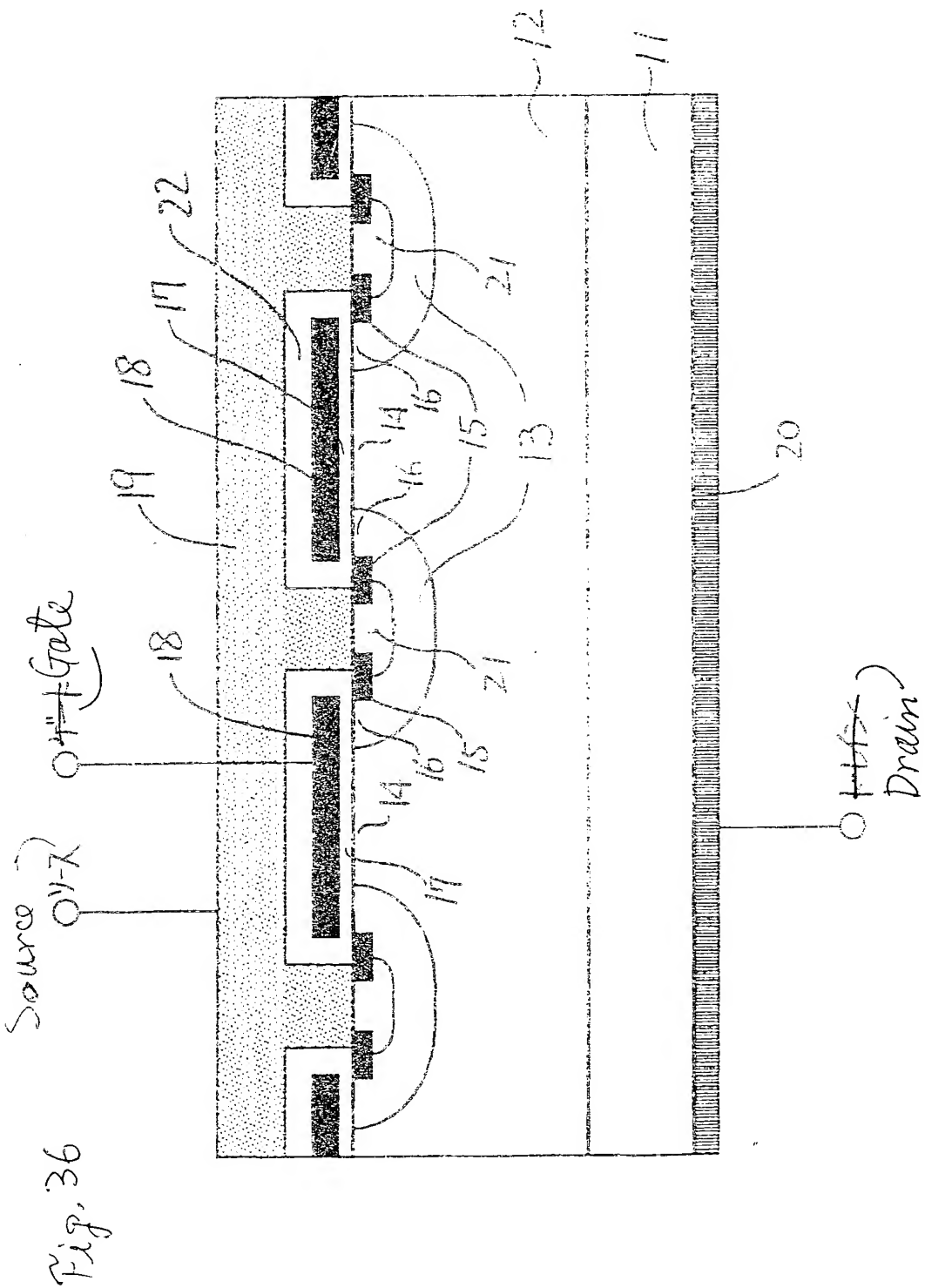


Fig. 35(b)



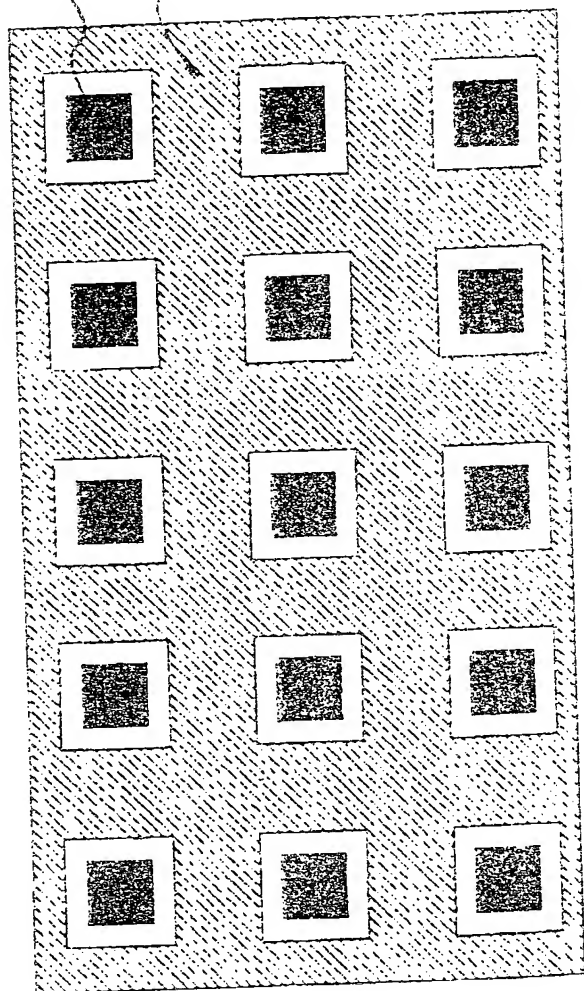


Fig. 37

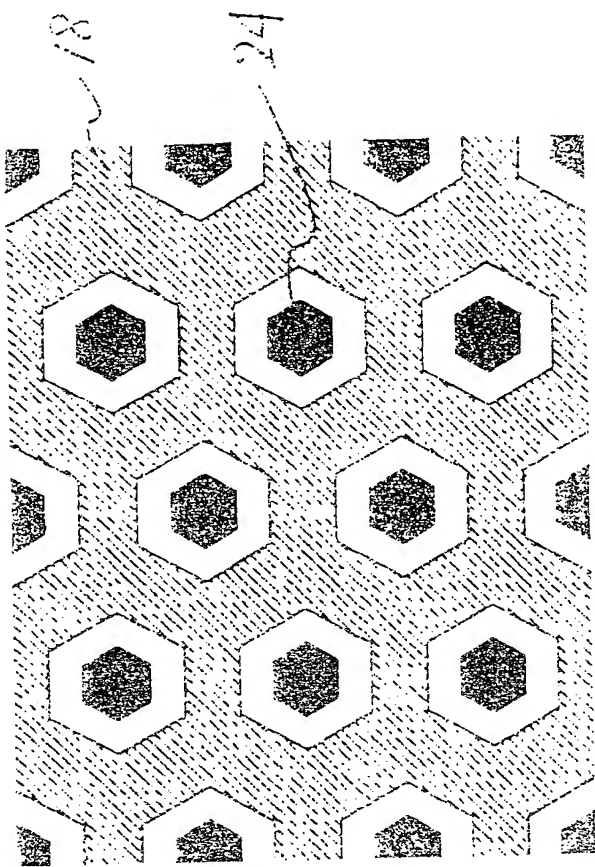


Fig. 38

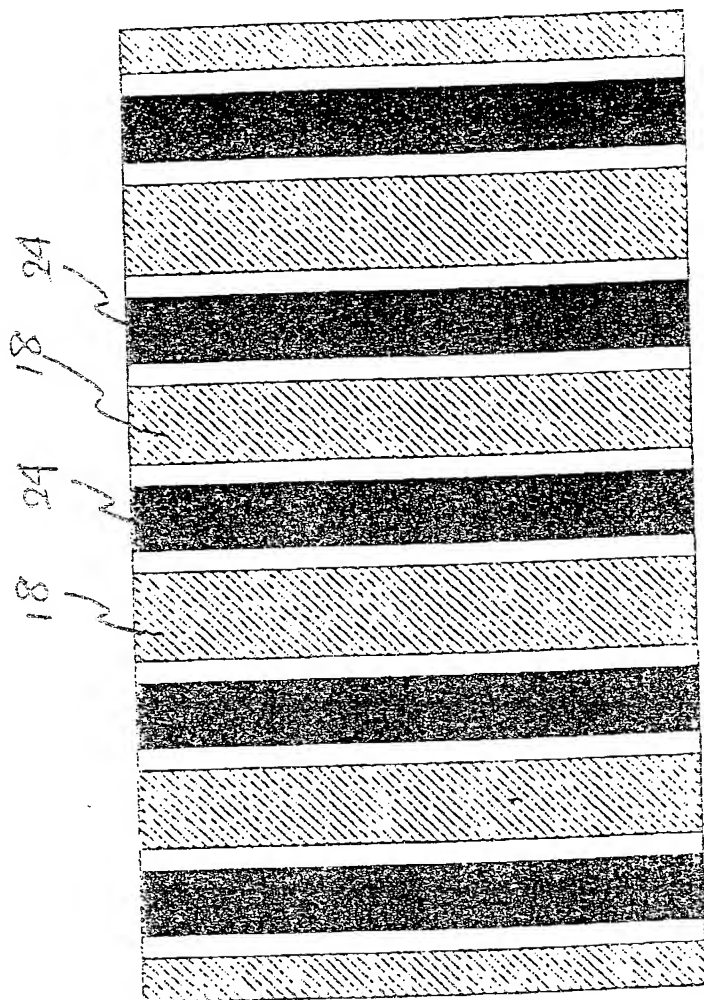
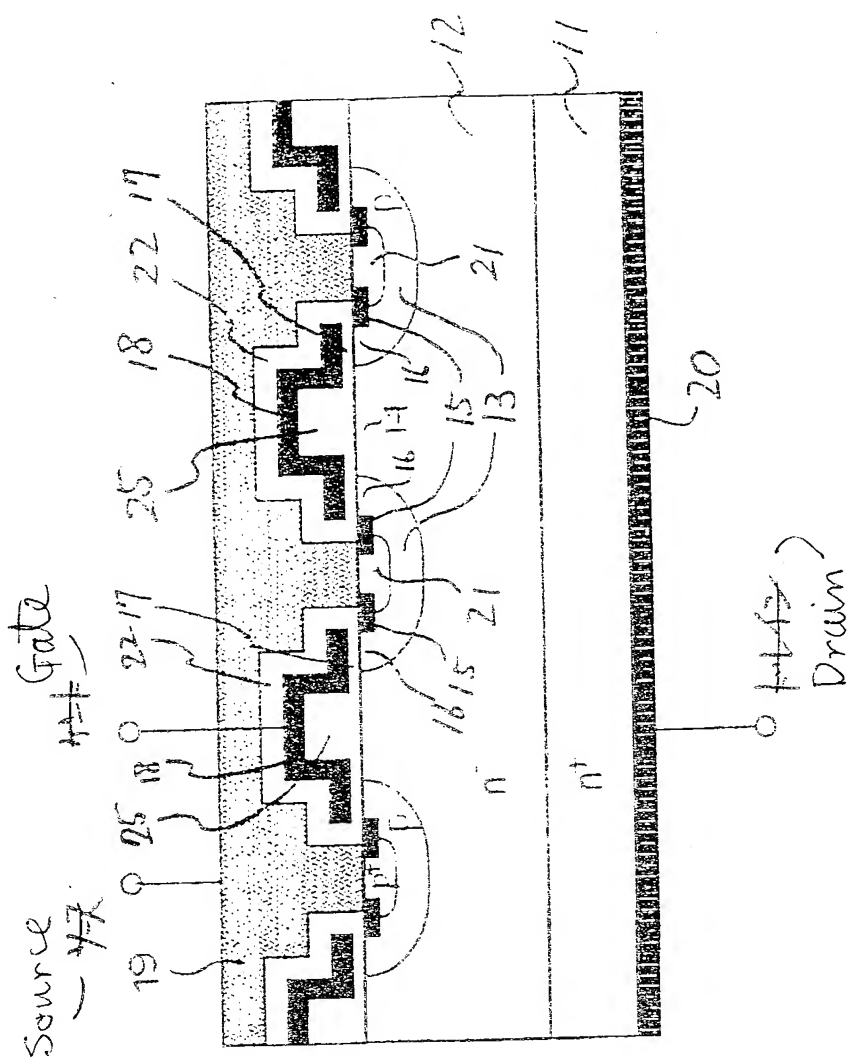


Fig. 39



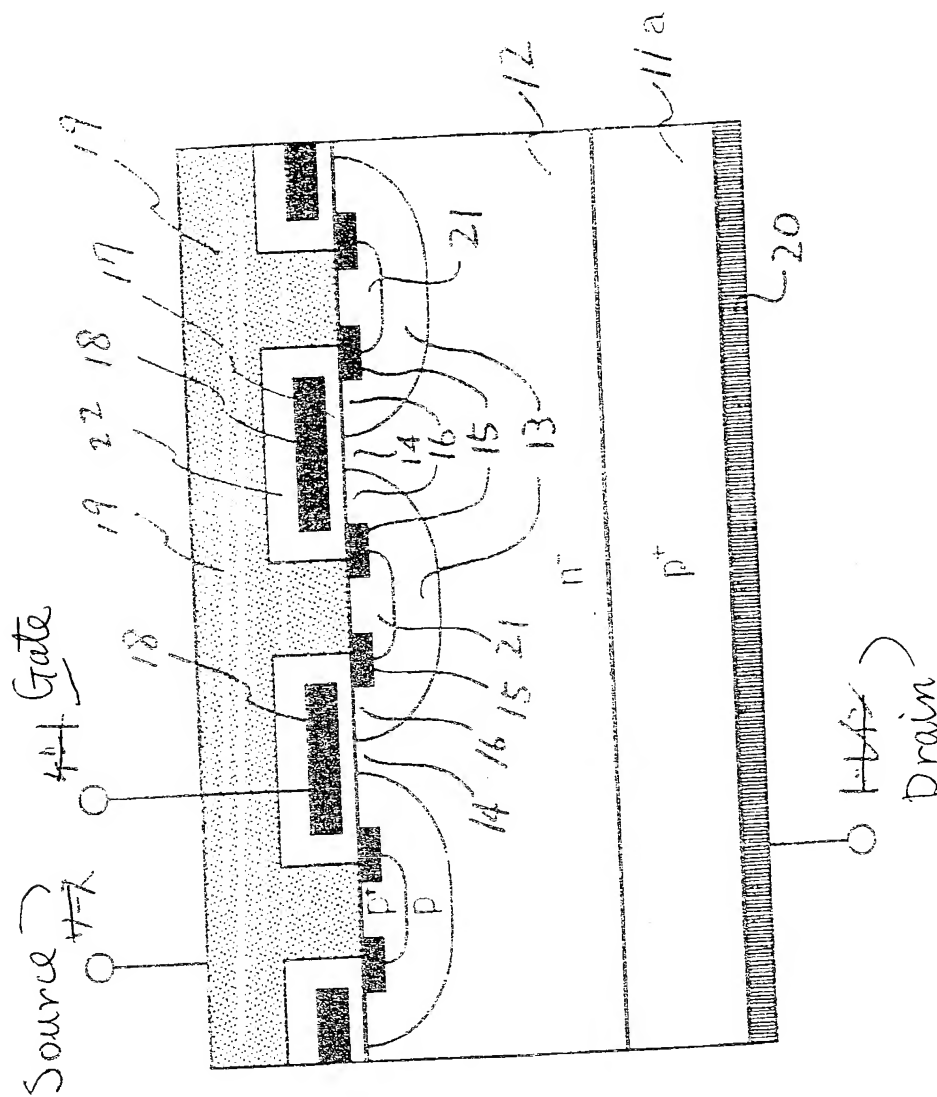


Fig. 41

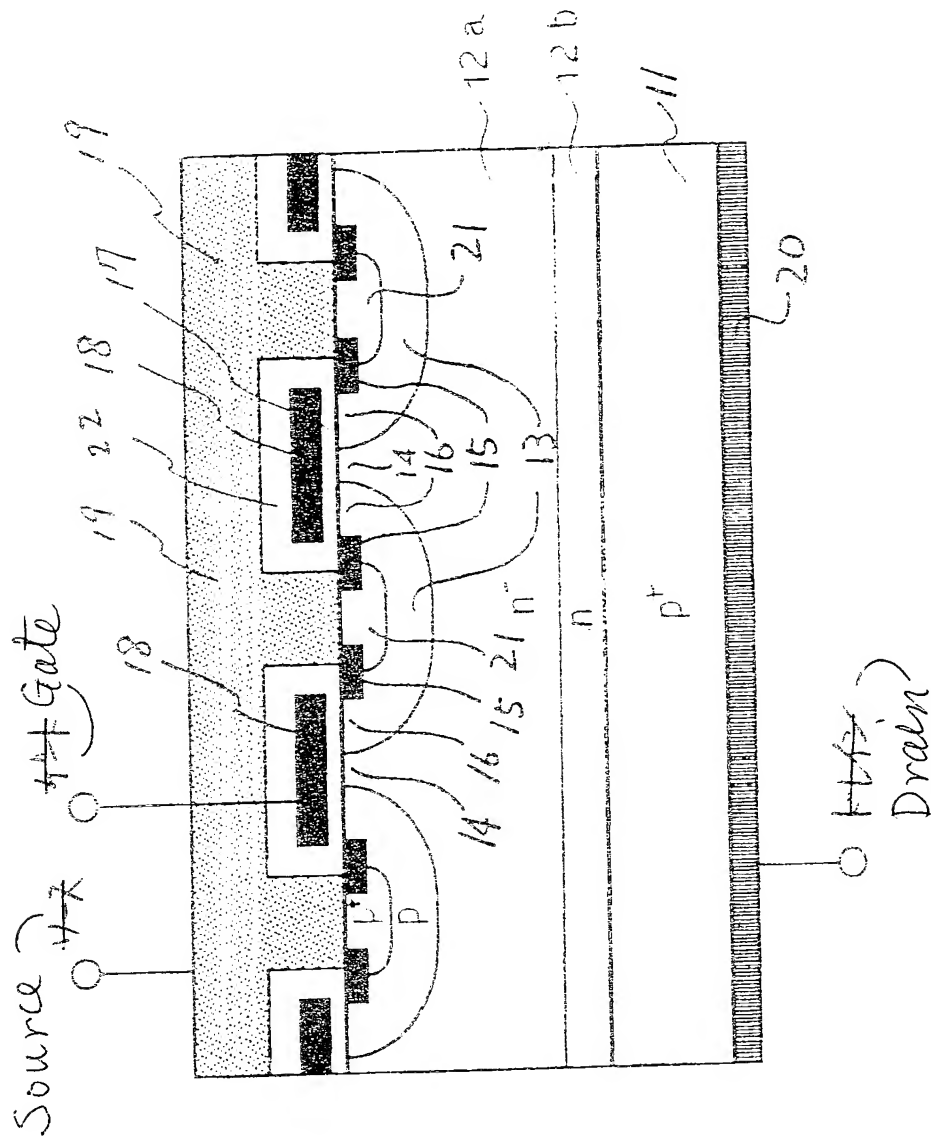
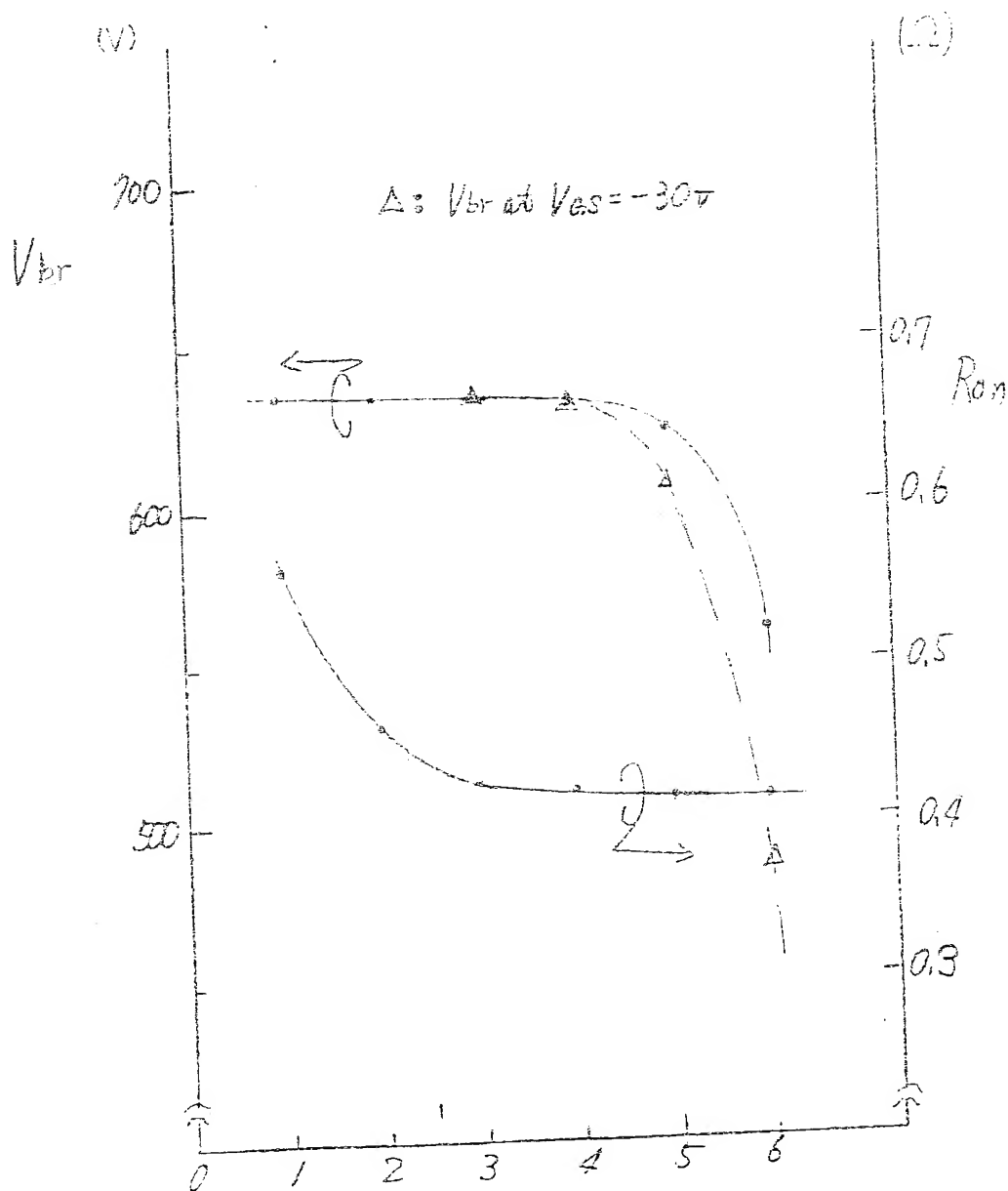


Fig. 42

Fig-43



リンイオン注入量 ($\times 10^{12}$ 個/cm²)
 Phosphorus ion dose amount